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A LIST

OF

PLANTS GROWING WITHOUT CULTIVATION

IN

Franklin, Hampshire and Hampden Counties

MASSACHUSETTS

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By GEORGE E. STONE,

Professor of Botany at the Massachusetts Agricultural College

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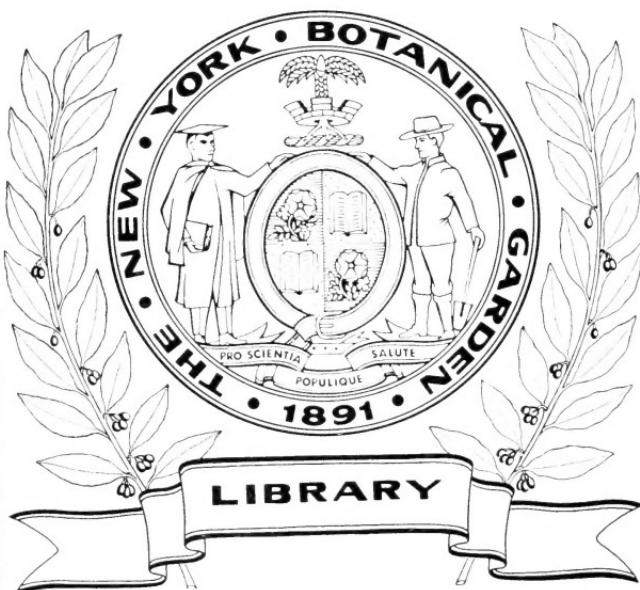
AMHERST, MASS.

PRESS OF CARPENTER & MOREHOUSE

1913

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## **Additions and Corrections.**

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The following plants are introduced instead of native, as indicated in the text:

***Amaranthus*** HYBRIDUS L. and forma HYPOCHONDRIACUS L., p. 26.

***Melilotus*** OFFICINALIS (L.) Lam., p. 38.

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Insert p. 29, after ***R. abortivus*** L.:

***Ranuculus*** ***abortivus*** L. var. ***eucyclus*** Fernald. Springfield,  
L. Andrews.

Insert p. 31, after ***Alyssum***:

***Thlaspi*** ARVENSE L. Springfield, L. Andrews.

Insert p. 32, after ***S. officinale*** (L.) Scop. var. ***leiocarpum*** DC. :

***Sisymbrium*** ALTISSIMUM L. Springfield, L. Andrews.

The first effort toward a systematic study of the native plants of this region was made by Pres. Edward Hitchcock<sup>1</sup> about 1817. The results of his explorations were published in 1829, and for many years very little was added to this list except what Prof. Tuckerman and others published in contemporary scientific journals. In 1875 Prof. Edward Tuckerman,<sup>2</sup> who for many years occupied the chair of history and botany in Amherst College, published his "Flora-Amherstiensis," in co-operation with Mr. Charles C. Frost, of Brattleboro, Vermont. This list is based on Pres. Hitchcock's previous catalogue, but is much more extensive, including as it does an elaborate list of mosses, liverworts, lichens and fungi, and in all it contains nearly 3,000 species and varieties. It is unusually complete for its day, and represents the work of skilled observers and systematists.

Besides being largely responsible for the flowering plants and vascular cryptogams contained in the Flora, Prof. Tuckerman contributed a very elaborate list of lichens, a most perplexing group of plants. He will always be remembered as the American pioneer in the study of lichens, and was from the first a thorough master of this difficult group, while he lived having no competitors. Even today his work remains unsurpassed and ranks as a classic.

The comprehensive list of mosses, liverworts, fungi, etc., was contributed by Mr. Charles C. Frost, and quite a few of the fungi bear his name as authority. This self-educated man, whose trade was that of cobbler, spent his leisure moments in the study of these difficult groups.

In 1887 Dr. N. A. Cobb,<sup>3</sup> then a teacher of science at Williston Seminary, but later government pathologist in New South Wales and now with the Bureau of Plant Industry, Washington, D. C., published a revised edition of Prof. Tuckerman's catalogue, in which new plants were added and the boundaries of others not so well known extended. Since Dr. Cobb's catalogue in 1887 a few additions to the plants of the region have been published, appearing largely in *Rhodora*.

Professional collectors and students from the various educational institutions located in the Connecticut valley have for years been active in collecting herbaria, and some new and rare plants have been

<sup>1</sup> E. Hitchcock—Catalogue of Plants growing without Cultivation in the Vicinity of Amherst College.

<sup>2</sup> E. Tuckerman—Catalogue of Plants growing without Cultivation within Thirty Miles of Amherst College.

<sup>3</sup> N. A. Cobb.—A List of Plants Found Growing Wild within Thirty Miles of Amherst.

brought to light. But since 1875 the study of botany has undergone many changes, and its present day problems differ greatly from those of former times. The systematist's conception of a species has also changed, a finer discrimination in determining species being required at the present time. The nomenclature question, the constant splitting up of species and the revision of families and genera are rendering the subject more perplexing and less fascinating to at least the true nature loving botanist.

In the present instance it has been our intention to bring the flora up to date and modify its scope to include the three counties comprising the Connecticut valley. These counties, whose boundaries are fairly uniform, represent a section extending from Connecticut to the New Hampshire and Vermont lines. The Connecticut valley forms a distinct area differing quite widely in its soil and climatic conditions from other sections of the state, the elevation ranging from less than 100 feet to only a few hundred feet. Here the elm reaches its greatest perfection, and on the higher slopes the rock maple finds its most congenial environment. The eastern part of the territory resembles that of Worcester county, and the general elevation ranges from 400 to about 1,200 feet; while the western section, which has an elevation of 800 to 2,200 or more feet, and which is farther from the coast, resembles in many ways southern Vermont. On the higher elevations of our western range the golden hawkweed becomes a pest in fields, as in Vermont, although in the Connecticut valley this plant is not common enough to be a nuisance. Here, too, the soil conditions are more primitive, therefore humus plants are found more abundantly than elsewhere in the state. In this region grow forests of beech and red spruce, and the balsam fir and hackmatack are common.

The diversified forms of plants which characterize a region and which we term its flora, represent adaptations to a more or less congenial environment, and even during the relatively brief period of the settlement of New England many of our introduced plants undoubtedly became modified to a certain extent. Even species which are adapted to a much warmer climate than our own frequently prove themselves as hardy as our native species, whereas on the other hand, quite a few of our native trees, like the sycamore and others, are often affected by winter killing.

There are many factors which play an important part in the distribution of plants of which we know little, and the problems involved are difficult of solution. Variations in the humus content, in the soil moisture or light intensity, may completely exterminate a species in a given locality. Continued deforestation has greatly modified our flora, many species having become rarer. Humus has played a very important role not only in affecting the predominance of certain

species but in modifying their growth. Many such species as hemlock, canoe birch, beech, hobblebush, round-leaved cornel (*Cornus circinata* L'Her) and others find less congenial conditions than formerly. The hemlock has declined from a tree second in importance in the primitive forests to one of slight importance at the present time. Such plants as *Hydrophyllum virginianum* and *canadense*, certain orchids and many others were no doubt always more or less rare or local, but at present they are very rare. In colonial times the wild strawberry was quite abundant in Massachusetts, and even less than a century ago it was fairly plentiful, but at present it is of no economic value except in our western territory. Some of the plants observed by Dr. Hitchcock nearly a century ago and included in this list have not been found since his time, and others have become rare. On the other hand, deforestation and the consequent cultivation of much of our soil has modified the environment to such an extent that the willow, birch, goldenrod, aster, violet, bluet, *Lespedeza* and a host of others are found more abundantly than formerly, and as Prof. Ezra Brainerd has pointed out, there is a marked tendency for violets to hybridize when growing in the open.

Many of our introduced plants were brought from Europe in early times. Some of them have been growing without much change for many years, while others have so adapted themselves to our conditions that they have become troublesome weeds. In the past twenty-five years many such plants have been introduced through grass seed and by means of commercial relations with other countries. Many of the plants which Prof. Tuckerman observed as rare in 1875 are now common enough, such, for example, as *Stellaria graminea* L., *Digitaria humifusa* Pers., *Leontodon autumnalis* L. and *Cerastium vulgatum* L., etc. On the other hand, some of our introduced plants have not shown any tendency to spread, and in some cases they have apparently not held their own. Among such plants might be mentioned *Tussilago Farfara* L., *Sedum*, buckthorn (*Rhamnus cathartica* L.), various dooryard weeds and plants used for medicinal purposes in former times, such as lovage (*Levisticum officinale* Koch.), wormwood (*Artemisia absinthium* L.), catnip (*Nepeta Cataria* L.), horseradish (*Radicula Armoracia* L.), henbane (*Hyoscyamus niger* L.), horehound (*Marrubium vulgare* L.), and Canada thistle, which forty years ago was considered a more or less serious pest, but is not now troublesome. These plants were in former times considered essential by most well regulated families, but now, along with the lilac, Lombardy poplar, live-evergreen and the old garden rose, they may be found persisting under unfavorable conditions, serving merely as landmarks of once thriving homesteads.

Some of the more important introduced species not noted by Prof. Tuckerman, which are more or less common now, are *Trifolium hybridum* L., golden hawkweed, *Bromus tectorum* L., Russian thistle (*Salsola*), *Galinsoga*, *Berteroa incana* (L.) DC., *Thymus Serpyllum* L., *Cynodon Dactylon* (L.) Pers., *Lysimachia Nummularia* L., *Lychnis Flos-cuculi* L. and *Lychnis alba* Mill.

Impure seed is the most important factor in the introduction of harmless and noxious species, and from 75 to 100 or more different species may occur in a particular sample or lot of grass seed. The impurities run from 5 to 25 per cent or more, and although frequently harmless, 10 or 15 per cent of noxious weeds are sometimes present in grass or clover seed. Since seed are sent from all over the United States and imported from foreign countries, it follows that a great variety of plants may be introduced into a particular region. Black medick, Canada thistle, charlock, chicory, crabgrass, chickweed, dodder, various docks and plantains, green foxtail, goosefoot, lady's thumb, ragweed, sheep sorrel, wild carrot, witch grass, yellow foxtail and many others constitute the principal impurities in seed. Dame and Collins,<sup>1</sup> in their "Flora of Middlesex county," enumerate 460 naturalized and adventive species and varieties which have become more or less established in that region.

In the preparation of this list I am under obligations to different ones whose names will be found throughout the text. This is especially true of Mr. Ray E. Torrey, of the 1912 class of this College, who has rendered valuable assistance all through the work. Mr. Torrey has also been of great service, from his extensive collecting and critical knowledge of our flora, in furnishing data in regard to the present range of certain species.

I am also indebted to Prof. A. Vincent Osmun, my colleague, who has given much attention to our native ferns and violets, and to Miss Jessie V. Crocker for assistance in seeing the work through the press. Dr. W. H. Chapin, of Springfield, has kindly furnished notes in regard to the plants in that locality, and Mrs. Maria L. Owen's long experience in collecting and studying the native plants has been helpful. Mr. Luman Andrews, of Southington, Connecticut, who is at present making an exhaustive study of the plants about Springfield, has furnished a large amount of data concerning new finds, as well as extending our knowledge of the range of other species. Mr. Andrews' herbarium has been presented to the Springfield Science Museum, where it is well arranged, and it is anticipated that he will add greatly to it in the future. We have also had access to the herbarium of the Springfield Science Museum, which besides the already referred to Luman Andrews collection, contains that of the Springfield Botanical

<sup>1</sup> L. Dame and F. S. Collins, "Flora of Middlesex County, Massachusetts, 1888.

Society; and, in addition, we have consulted the herbaria of Mt. Holyoke and Amherst Colleges, and the Knowlton herbarium<sup>a</sup> of the Massachusetts Agricultural College. The mosses, liverworts, lichens, fungi and Characeae have been purposely omitted from this list. The list of lichens in Prof. Tuckerman's catalogue is one of the most complete and authentic published, but the list of fungi, Characeae, etc., contributed by Mr. Frost is of little value as it stands today, since much progress has been made in the study of these groups since his time.

This list would possess much less value were it not for the work of my predecessors, and frequent reference has been made to Pres. Edward Hitchcock<sup>1</sup>, Prof. Edward Tuckerman<sup>2</sup>, Prof. H. G. Jesup<sup>3</sup>, Col. W. S. Clark<sup>4</sup>, Dr. N. A. Cobb and others, who have contributed to the previous lists of this region.

I have endeavored to differentiate between indigenous (native), naturalized, and adventive species (introduced but not permanently established), by putting the naturalized species in capitals and the adventive in italics, although there may be some errors in judgment as to which are adventive and which naturalized in our range.

The nomenclature and arrangement of families, etc., follows Gray's Manual, seventh edition, although we have in some instances referred to Britton & Brown's North American Flora, and Prof. L. H. Bailey's Cyclopedia of American Horticulture.

This list contains in all 1190 native and 303 naturalized and adventive species, a total of 1493.

GEORGE EDWARD STONE.

Amherst, Mass., Feb. 15, 1913.

<sup>1</sup> Edward Hitchcock, A. M., D. D., LL. D., 1793—1864. Professor Chemistry and Natural History Amherst College, 1825—1845. President, 1845—1854. State Geologist, 1830—1864. Emeritus Professor Geology Amherst College, until 1864. Pioneer in American geological research.

<sup>2</sup> Edward Tuckerman, B. A., M.A., LL.B., LL.D., 1817—1886. Lecturer and Professor Oriental History Amherst College, 1854—1873. Professor Botany, 1858—1886. Pioneer in American lichenology.

<sup>3</sup> Henry Griswold Jesup, M. A., 1826—1903. Professor Botany Dartmouth College, 1877—1890.

<sup>4</sup> William Smith Clark, M. A., Ph.D., LL.D., 1826—1886. Professor Chemistry, Botany and Zoology Amherst College, 1852—1867. Colonel Civil War, 1862. President and Professor Botany and Horticulture, Mass. Agr. College, 1867—1879.



# PTERIDOPHYTA

(Ferns and Fern Allies)

## POLYPODIACEAE

**Polypodium** [Tourn.] L. Polypody.

*vulgare* L. Common Polypody.

**Phegopteris** [Presl.] Fée. Beech Fern.

*polypodioides* Fée.

*hexagonoptera* (Michx.) Fée.

*Dryopteris* (L.) Fée. Oak Fern.

**Adiantum** [Tourn.] L. Maidenhair Fern.

*pedatum* L.

**Pteris** L. Brake or Bracken.

*aquilina* L. Common Brake.

**Pellaea** Link. Cliff Brake.

*atropurpurea* (L.) Link. Mt. Toby; Gorge and near Titan's piazza, Mt. Holyoke, Mrs. C. S. Phelps; Wilbraham, Dr. W. H. Chapin; Mt. Tom; Mt. Sugar Loaf.

**Cryptogramma** R. Br. Rock Brake.

*Stelleri* (Gmel.) Prantl. Mt. Toby.

**Woodwardia** Sm. Chain Fern.

*virginica* (L.) Sm. Springfield, Dr. W. H. Chapin; Belchertown, South Hadley.

*areolata* (L.) Moore. Hadley, H. G. Jesup; Deerfield, E. Hitchcock.

**Asplenium** L. Spleenwort.

*Trichomanes* L.

*platyneuron* L. Oakes.

*Ruta-muraria* L. Wall Rue. Mt. Toby.

*angustifolium* Michx. Mt. Toby, Mt. Tom and vicinity.

*acrostichoides* Sw. Amherst, South Hadley, etc.

*Filix-femina* (L.) Bernh. Lady Fern.

**Camptosorus** Link. Walking Leaf.

*rhizophyllum* (L.) Link. Mt. Toby, etc., Mt. Holyoke[Gorge] Mrs. C. S. Phelps; Wilbraham, Dr. W. H. Chapin.

**Polystichum** Roth.

*acrostichoides* (Michx.) Schott. Christmas Fern.

*acrostichoides* (Michx.) Schott. var. *schweinitzii* (Beck.) Small. Not rare.

**Aspidium** Sw. Shield Fern. Wood Fern.

- A.** *Thelypteris* (L.) Sw.  
*simulatum* Davenp. Mt. Toby, A. V. Osmun.  
*noveboracense* (L.) Sw.  
*marginale* (L.) Sw.  
*Goldianum* Hook. Mt. Tom, S. Stebbins; Mt. Toby; Notch, Mt. Holyoke, A. V. Osmun.  
*Boottii* Tuckerm. Mt. Toby.  
*cristatum* (L.) Sw.  
*cristatum* L. Sw. var. *clintonianum* D. C. Eaton. Mt. Toby, etc.  
*spinulosum* (O. F. Müller) Sw. Mt. Toby, etc.  
*spinulosum* (O. F. Müller) Sw. var. *intermedium* (Muhl.) D. C. Eaton. Mt. Toby, etc.  
*spinulosum* (O. F. Müller) Sw. var. *dilitatum* (Hoffm.) Hook. Mt. Toby, A. V. Osmun.
- Cystopteris* Bernhardi. Bladder Fern.  
*bulbifera* (L.) Bernh. Mt. Toby, Sunderland, etc.  
*fragilis* (L.) Bernh. Springfield, S. Stebbins; Mt. Holyoke; Sunderland, etc.
- Woodsia* R. Brown.  
*ivensis* (L.) R. Brown.  
*obtusa* (Spreng.) Torr.
- Dicksonia* L'Hér.  
*punctilobula* (Michx.) Gray. Hay-scented Fern.
- Onoclea* L.  
*sensibilis* L. Sensitive Fern.
- Struthiopteris* (L.) Hoffman. Ostrich fern. This fern in Mass. attains its maximum development in the Conn. valley reaching a height of 7 feet or more.

#### SCHIZAEACEAE

- Lygodium* Swartz. Climbing Fern.  
*palmatum* (Bernh.) Sw. Local.

#### OSMUNDACEAE

- Osmunda* [Tourn.] L. Flowering Fern.  
*regalis* L.  
*Claytoniana* L.  
*cinnamomea* L. Cinnamon Fern.

#### OPHIOGLOSSACEAE

- Ophioglossum* [Tourn.] L. Adder's Tongue.  
*vulgatum* L.  
*Botrychium* Swartz. Moonwort.  
*simplex* E. Hitchcock. Conway, E. Hitchcock; Plainfield, etc., Porter; Mt. Toby.

**B. lanceolatum** (Gmel.) Angstroem. var. *angustisegmentum* Pease & Moore. Amherst, L. B. Tuckerman; Conway, H. G. Jesup; Mt. Toby, Sumner C. Brooks; Holyoke Range, A. V. Osmun.

**ramosum** (Roth.) Ashers Conway, etc., H. G. Jesup; Mt. Toby, T. O. Fuller in *Rhodora*, Vol. III., p. 144; Springfield, Dr. W. H. Chapin.

**obliquum** Muhl.

**obliquum** Muhl. var. *dissectum* Spreng.

**ternatum** (Thunb.) Swartz. var. *intermedium* D. C. Eaton.

**virginianum** (L.) Swartz. Rattlesnake Fern.

#### EQUISETACEAE

**Equisetum** [Tourn.] L. Horsetail.

**arvense** L. Common Horsetail.

**arvense** forma *decumbens*, Springfield.

**sylvaticum** L.

**fluviatile** L. Pipes.

**hyemale** L. Scouring Rush.

**hyemale** L. var. *affine* (Engelm.) A. A. Eaton. Springfield, L. Andrews.

**variegatum** Schleich. var. *Jesupi* A. A. Eaton. Conway, H. G. Jesup.

**scirpoideus** Michx. Plainfield, Porter; Colrain, E. F. Williams in *Rhodora*, Vol. XII., p. 170.

#### LYCOPODIACEAE

**Lycopodium** L. Club moss.

**Selago** L. Mt Holyoke, Freeman in *Rhodora* Vol. V., p. 290.

**lucidulum** Michx.

**inundatum** L. Amherst, etc.

**annotinum** L.

**clavatum** L. Common Club Moss.

**clavatum** L. var. *monostachyon* Grev. & Hook.

**obscurum** L.

**obscurum** L. var. *dendroideum* (Michx.) D. C. Eaton.

**sabinaefolium** Willd. Tuckerman.

**complanatum** L.

**complanatum** L. var. *flabelliforme* Fernald. Ground Pine.

**tristachyum** Pursh.

#### SELAGINELLACEAE

**Selaginella** Beauv.

**rupestris** (L.) Spring.

**apus** (L.) Spring.

## ISOETACEAE

*Isoetes* L. Quillwort.

*echinospora* Durieu. var. *Braunii* (Dur.) Engelm.

*Eatoni* Dodge.

*Gravesii* A. A. Eaton.

*Engelmanni* A. Br. Other forms of Isoetes exist in this region  
but they have not been sufficiently studied.

# SPERMATOPHYTA

(Seed Plants.)

## GYMNOSPERMAE

### TAXACEAE

**Taxus** [Tourn.] L. Yew.

*canadensis* Marsh. American Yew, Ground Hemlock.

### PINACEAE

**Pinus** [Tourn.] L. Pine.

*Strobus* L. White Pine.

*rigida* Mill. Pitch Pine.

*SYLVESTRIS* L. Scotch Pine. Escaped from cultivation and established abundantly in some localities.

*resinosa* Ait. Red Pine. Locally distributed.

**Larix** [Tourn.] Adans. Larch. American Larch, Tamarack, Hackmatack.

*laricina* (DuRoi) Koch.

*decidua* Mill. Amherst, escaped from cultivation.

**Picea** Link. Spruce.

*rubra* (DuRoi) Dietr. Red Spruce. Occasionally found on high elevations. Much less abundant in our region than Worcester and Berkshire counties.

*mariana* (Mill.) BPS. Black or Bog Spruce. Found in cold bogs and swamps.

*abies* (L.) Karst. Norway Spruce. Occasionally escaped from cultivation.

**Abies** [Tourn.] Hill. Fir.

*balsamea* (L.) Miller. Balsam or Balm-of-Gilead Fir. Generally distributed but not common.

**Tsuga** (Endl.) Carriére. Hemlock.

*canadensis* (L.) Carr.

**Chamaecyparis** Spach. White Cedar, Cypress.

*thyoides* (L.) BSP. Springfield.

**Juniperus** [Tourn.] L. Juniper.

*communis* L. Common Juniper.

*communis* L. var. *depressa* Pursh. Three distinct types of Juniperis communis are found in this region; a low form var. *depressa*; a more or less erect form considered as the type; and a tree-like form corresponding to J. *communis* var. *erecta* Pursh. See Mrs. E. H. Terry, *Rhodora*, Vol. III., p. 146.

*virginiana* L. Red Cedar or Savin. Variable in form and color.

## ANGIOSPERMAE

## MONOCOTYLEDONEAE

## TYPHACEAE

*Typha* [Tourn.] L. Cat-tail Flag.

*latifolia* L. Common Cat-tail.

*angustifolia* L. Belchertown near B. & M. R. R. station, S. C.  
Brooks.

## SPARGANIACEAE

*Sparganium* [Tourn.] L. Bur-reed.

*eurycarpum* Engelm.

*americanum* Nutt. Bay street, Springfield, L. Andrews.

*simplex* Huds.

## NAJADACEAE

*Potamogeton* [Tourn.] L. Pondweed.

*natans* L.

*Oakesianus* Robbins.

*epiphydrus* Raf.

*alpinus* Balbis.

*americanus* C. & S. Conn. river, etc.

*pulcher* Tuckerm. South pond, Belchertown, E. Tuckerman.

*amplifolius* Tuckerm.

*heterophyllus* Schreb.

*heterophyllus* forma *graminifolius* (Fries) Morong.

*lucens* L. Leverett pond. E. Tuckerman.

*praelongus* Wulf.

*perfoliatus* L.

*zosterifolius* Schumacher.

*obtusifolius* Mertens and Koch. Forge pond, Granby, E. Tucker-  
man.

*pusillus* L.

*foliosus* Raf.

*hybridus* Michx.

*dimorphus* Raf.

*pectinatus* L. Conn. river, E. Tuckerman.

*Robinsii* Oakes.

*Najas* L. Naiad.

*flexilis* (Willd.) Rostk. & Schmidt.

## JUNCAGINACEAE

*Scheuchzeria* L.*palustris* L. Belchertown ponds, Bradley pond, Springfield, S. Stebbins.

## ALISMACEAE

*Sagittaria* L. Arrow-head.*latifolia* Willd. Passing into many forms.*heterophylla* Pursh.*graminea* Michx.*Alisma* L. Water Plantain.*Plantago-aquatica* L.

## HYDROCHARITACEAE

*Elodea* Michx. Water-weed.*canadensis* Michx. Conn. river, etc.*Vallisneria* [Mich.] L. Tape Grass, Eel Grass.*spiralis* L. Conn. river, etc.

## GRAMINEAE

*Andropogon* [Royen] L. Beard Grass.*scoparius* Michx.*virginicus* L. Amherst.*furcatus* Muhl.*Sorghastrum* Nash.*nutan* (L.) Nash. Indian Grass, Wood Grass.*Digitaria* Scop. Finger Grass.*filiformis* (L.) Koeler.

HUMIFUSA Pers. This and the preceding species constitute very troublesome lawn grasses.

*Sanguinalis* (L.) Scop. Crab Grass.*Paspalum* L.*setaceum* Michx.*Panicum* L. Panic Grass.*verrucosum* Muhl. Springfield, island in Red House Pond. Scribner & Merrill in *Rhodora*, Vol. III., p. 103.*capillare* L. Old-witch Grass.*philadelphicum* Bernh. Southwick, C. H. Bissell, *Rhodora*, V. 13, p. 54.*miliaceum* L. European Millet. Waste places. Springfield, Dr. W. H. Chapin.*dichotomiflorum* Michx. Amherst, E. Tuckerman; Agawam, Scribner & Merrill, *Rhodora*, Vol. III., p. 104.*virgatum* L. Switch Grass.*agrostoides* Spreng.*depauperatum* Muhl.

- P.** *linearifolium* Scribn. Springfield, L. Andrews.  
*dichotomum* L.  
*huachucae* Ashe. var. *silvicola* Hitchc. & Chase.  
*Scribnérianum* Nash. Mt. Holyoke, Scribner & Merrill in  
*Rhodora*, Vol. III., p. 112.  
*xanthophysum* Gray. Amherst, H. G. Jesup; Springfield, Dr.  
W. H. Chapin. See Scribner & Merrill in *Rho-*  
*dora*, Vol. III., p. 109.  
*clandestinum* L.  
*latifolium* L.  
**Echinochloa** Beauv.  
*CRUSGALLI* (L.) Beauv. Barnyard Grass.  
*frumentacea* (Roxb.) Link.  
**Setaria** Beauv. Bristly Foxtail Grass.  
*GLAUCUM* (L.) Beauv. Foxtail, Pigeon Grass.  
*VIRIDIS* (L.) Beauv. Green Foxtail, Bottle Grass.  
*ITALICA* (L.) Beauv. German Millet or Hungarian Grass.  
**Cenchrus** L. Sandbur, Bur Grass. Amherst, Hadley, Springfield.  
*carolinianus* Walt.  
**Zizania** (Gronov.) L. Indian Rice, Water Oats.  
*palustris* L. Northampton, Tuckerman & Jesup; Long-  
meadow, C. S. Plumb; Springfield, Dr. W. H.  
Chapin; Amherst.  
**Leersia** Swartz. Cut-grass, White Grass.  
*virginica* Willd. White Grass.  
*oryzoides* (L.) Swartz. Rice Cut-grass.  
**Phalaris** L. Canary Grass.  
*canariensis* L. In waste places.  
*arundinacea* L. Reed Canary Grass. Generally distributed.  
*arundinacea* L. var. *PICTA* L. Ribbon Grass. Persistent  
near old dwellings.  
**Anthoxanthum** L. Sweet Vernal Grass.  
*ODORATUM* L.  
*Puelii* Lecoq & Lamotte. Mass. Agr. College.  
**Hierochloe** (Gmel.) R. Br. Holy Grass.  
*odorata* (L.) Wahlnb. Vanilla Grass. Agawam, Dr. W. H.  
Chapin.  
**Oryzopsis** Michx. Mountain Rice.  
*pungens* (Torr.) Hitchc.  
*asperifolia* Michx.  
*racemosa* (Sm.) Ricker.  
**Aristida** L. Triple-awned Grass.  
*dichotoma* Michx. Poverty Grass.  
*purpurascens* Poir. Mt. Holyoke, E. Hitchcock; W. Spring-  
field, Dr. J. W. Robbins.

***Muhlenbergia*** Schreber.*sobolifera* (Muhl.) Trin.*tenuiflora* (Willd.) BSP.*sylvatica* Torr.*mexicana* (L.) Trin.*racemosa* (Michx.) BSP.***Schreberi*** J. F. Gmel. Drop-seed, Nimble Will. Amherst, H. G. Jesup; South Hadley.***capillaris*** (Lam.) Trin. Hair Grass. Sugarloaf; Mt. Holyoke.***Brachelytrum*** Beauv.*erectum* (Schreb.) Beauv.***Phleum*** L.*PRATENSE* L. Timothy, Herd's Grass.***Alopecurus*** L. Foxtail Grass.*PRATENSIS* L. Meadow Foxtail.*geniculatus* L. Floating Foxtail.*geniculatus* L. var. *aristulatus* Torr. Amherst, etc. E. Tuckerman; also by H. G. Jesup.***Sporobolus*** R. Br. Drop-seed. Rush Grass.*vaginiflorus* (Torr.) Wood.*uniflorus* (Muhl.) Scribn. & Merr.***Agrostis*** L. Bent Grass.*ALBA* L. White Bent Grass.*ALBA* L. var. *VULGARIS* (With.) Thurb. Red Top.*hyemalis* (Walt.) BSP.*perennans* (Walt.) Tuckerm. Thin Grass.*CANINA* L. Rhode Island Bent Grass. In lawns, etc.***Calamagrostis*** Adans. Reed Bent Grass.*canadensis* (Michx.) Beauv. Blue-joint Grass.*inexpansa* Gray. Lock's Pond, Shutesbury; H. L. Clark, in *Rhodora*, Vol. I, p. 165.*cinnoides* (Muhl.) Barton.***Cinna*** L. Wood Reed Grass.*arundinacea* L.***Holcus*** L.*LANATUS* L. Velvet Grass.***Sphenopholis*** Scribn.*obtusata* (Michx.) Scribn.*pallens* (Spreng.) Scribn.*palustris* (Michx.) Scribn. Amherst, Hitchc. Catal.***Trisetum*** Persoon. Nonotuck, E. Tuckerman.*spicatum* (L.) Richter. Deerfield, H. G. Jesup.*flavescens* (L.) R. & S. Introduced in grass-seed.

***Deschampsia*** Beauv.***flexuosa*** (L.) Trin. Common Hair Grass.***caespitosa*** (L.) Beauv. Hadley meadows, E. Tuckerman; Mt. Toby, H. G. Jesup.***Avena*** (Tourn.) L. Oat.***sativa*** L. Waste places.***Arrhenatherum*** Beauv. Oat Grass.***elatius*** (L.) Beauv. Tall Oat Grass.***Danthonia*** DC. Wild Oat Grass.***spicata*** (L.) Beauv.***compressa*** Aust. Shutesbury, etc. H. G. Jesup.***sericea*** Nutt. Easthampton, Dr. N. A. Cobb.***Spartina*** Schreb. Cord or Marsh Grass.***Michauxiana*** Hitchc. Slough Grass. Shores of Connecticut River, E. Tuckerman.***Cynodon*** Richard. Bermuda or Scutch Grass.***Dactylon*** (L.) Pers. Amherst and Springfield.***Eleusine*** Gaertn. Goose Grass. Yard Grass.***indica*** Gaertn. Amherst, rare, E. Hitchcock; Springfield, Mrs. M. E. Owen. Observed year after year.***Phragmites*** Trin. Reed.***communis*** Trin. South Amherst, E. Hitchcock.***Tridens*** R. & S.***flavus*** (L.) Hitchc. Tall Red Top. Sugarloaf, E. Hitchcock.***Eragrostis*** Beauv.***hypnoides*** (Lam.) BSP.***capillaris*** (L.) Nees.***ptilosa*** (L.) Beauv. Amherst, E. Tuckerman; Springfield, Dr. W. H. Chapin and elsewhere.

MEGASTACHYA (Koeler) Link.

***minor*** Host. Amherst, rare, E. Tuckerman, 1875; more common since.***pectinacea*** (Michx.) Steud.***Briza*** L. Quaking Grass.***media*** L. Amherst, rare, E. Tuckerman, 1875.***Dactylis*** L. Orchard Grass.

GLOMERATA L.

***Poa*** L. Meadow Grass. Spear Grass.

ANNUA L. Low Spear Grass.

COMPRESSA L. Canada Blue Grass. Wire Grass.

***triflora*** Gilib. Fowl Meadow Grass.***pratensis*** L. June Grass, Spear Grass. Kentucky Blue Grass.

TRIVIALIS L. Rough-stalked Meadow Grass.

**P.** *alsodes*, Gray. North Amherst, H. L. Clark, in *Rhodora*, Vol. I, p. 165.

*nemoralis* L. Hitchc. Catal?

**Glyceria** R. Br. Manna Grass.

*Torreyana* (Spreng) Hitchc.

*canadensis* (Michx.) Trin. Rattlesnake Grass.

*nervata* (Willd.) Trin. Fowl Meadow Grass.

*grandis* Watson. Reed Meadow Grass.

*pallida* (Torr.) Trin.

*fluitans* (L.) R. Br.

*acutiflora* Torr. Amherst, E. Tuckerman; Springfield.

**Festuca** L. Fescue Grass.

*octoflora* Walt.

OVINA L. Sheep's Fescue.

OVINA L. var. *duriuscula* (L.) Hoch.

OVINA L. var. *CAPILLATA* (Lam.) Hoch.

ELATIORE L. Taller or Meadow Fescue.

*nutans* Spreng. Mt. Tom.

**Bromus** L. Brome Grass.

*secalinus* L. Cheat or Chess Grass. Grain fields; introduced in seed.

*tectorum* L. Waste places, local; more common near the coast.

*ciliatus* L.

*Kalmii* Gray. Wild Chess Grass.

**Nardus** L. Mat Grass.

*stricta* L. Amherst, E. Tuckerman, 1871; mowings, Mt. Hermon (Gill.) See Britton and Brown Flora, Vol. I, p. 224.

**Lolium** L. Darnel.

PERENNE L. Common Darnel, Perennial Ray or Rye Grass.

**Agropyron** Gaertn.

REPENS L. Beauv. Couch, Quitch, Quick or Witch Grass.

*caninum* (L.) Beauv. Awned Wheat Grass. Mt. Holyoke, Leverett, etc., E. Tuckerman.

**Elymus** L. Lyme Grass. Wild Rye.

*virginicus* L.

*canadensis* L.

*striatus* Willd.

**Hystrix** Moench. Bottle-brush Grass.

*patula* Moench.

### CYPERACEAE

**Cyperus** [Tourn.] L. Calingale.

*diandrus* Torr.

*rivularis* Kunth. Springfield, L. Andrews.

- C.** *aristatus* Rottb.  
*dentatus* Torr.  
*esculentus* L. Occasionally in cultivated fields.  
*erythrorhizus* Muhl. Herb. Spfld Sci. Museum. Agawam river,  
                   Mrs. M. L. Owen  
*ferax* Rich. Hadley meadows, H. G. Jesup.  
*strigosus* L.  
*filiculmis* Vahl.  
**Dulichium** Pers.  
*arundinaceum* (L.) Britton.  
**Eleocharis** R. Br. Spike Rush.  
*Robbinsii* Oakes. Ponds.  
*olivacea* Torr. Leverett pond, H. G. Jesup.  
*diandra* C. Wright.  
*ovata* (Roth.) R. & S.  
*obtusa* (Willd.) Schultes.  
*palustris* (L.) R. & S.  
*acicularis* (L.) R. & S.  
*tenuis* (Willd.) Schultes.  
*intermedia* (Muhl.) Schultes.  
**Psilocarya** Torr. Bald Rush.  
*scirpoidea* Torr. Pond shores, Springfield, Fernald; in *Rhodora*, Vol. X., p. 142.  
**Stenophyllum** Raf.  
*capillaris* (L.) Britton.  
**Fimbristylis** Vahl.  
*Frankii* Steud.  
**Scirpus** [Tourn.] L. Bulrush or Club Rush.  
*planifolius* Muhl.  
*hudsonianus* (Michx.) Fernald.  
*subterminalis* Torr. Aquatic.  
*debilis* Pursh.  
*americanus* Pers.  
*Torreyi* Olney. Pond in Hadley meadows, etc., E. Tuckerman.  
*validus* Vahl. Great Bulrush.  
*fluvialis* (Torr.) Gray. River Bulrush. South Hadley.  
*rubrotinctus* Fernald. Amherst, H. L. Clark; in *Rhodora*, Vol. I, p. 165. Springfield, L. Andrews.  
*sylvaticus* L. Herb. Spfld Sci. Museum. Springfield, L. Andrews.  
*atrovirens* Muhl.  
*georgianus* Harper. Springfield, L. Andrews.  
*polyphyllus* Vahl.  
*lineatus* Michx.  
*cyperinus* (L.) Kunth. Wool Grass.



- C. *stellulata* var. *angustata* Carey. Springfield, L. Andrews.
- scirpoidea* Schkuhr.
- canescens* L.
- canescens* L. var. *disjuncta* Fernald. Herb. Spfld. Sci. Museum.
- brunnescens* Poir.
- bromoides* Schkuhr.
- Deweystana* Schwein.
- tenuiflora* Wahlenb. Southampton.
- trisperma* Dewey.
- tenella* Schkuhr.
- rosea* Schkuhr.
- retroflexa* Muhl.
- Muhlenbergii* Schkuhr. Hadley, etc., E. Tuckerman.
- Muhlenbergii* Schkuhr. var. *enervis* Boott. Herb. Spfld. Sci. Museum.
- cephalophora* Muhl.
- sparganioides* Muhl.
- vulpinoidea* Michx.
- diandra* Schrank. Deerfield, E. Hitchcock.
- diandra* Schrank. var. *ramosa* (Boott.) Fernald. Deerfield, E. Hitchcock.
- stipata* Muhl.
- crinita* Lam.
- torta* Boott.
- stricta* Lam.
- aurea* Nutt. Conway, H. G. Jesup.
- pauciflora* Lightf. Ashfield, Porter.
- leptalea* Wahlenb.
- polygama* Schkuhr.
- triceps* Michx. var. *hirsuta* (Willd.) Bailey.
- virescens* Muhl.
- formosa* Dewey. Amherst, Hitchc. Catal.;
- Davisii* Schwein & Torr. North Hadley, E. Tuckerman.
- gracillima* Schwein.
- Backii* Boott. Mt. Tom, Prof. W. D. Whitney.
- umbellata* Schkuhr.
- varia* Muhl.
- novae-angliae* Schwein.
- pennsylvanica* Lam.
- pubescens* Muhl.
- livida* (Wahlenb.) Willd.
- tetanica* Schkuhr. Amherst, Hitchc. Cata<sup>1</sup>.
- polymorpha* Muhl. Westfield, Rev. Dr. Davis.
- pallescens* L.

- C.** *limosa* L. Ashfield, Porter.  
*prasina* Wahlenb.  
*pedunculata* Muhl. Mt. Holyoke, etc., E. Tuckerman; Mt. Toby, H. G. Jesup.  
*plantaginea* Lam. Mt. Toby, H. G. Jesup; Rocky Mountain, Greenfield, Dr. N. A. Cobb.  
*platyphylla* Carey. Mt. Holyoke, etc., E. Tuckerman and H. G. Jesup; Mt. Toby, H. G. Jesup.  
*laxiculmis* Schwein. Amherst, etc.  
*digitalis* Willd.  
*laxiflora* Lam.  
*laxiflora* Lam. var. *patulifolia* (Dewey) Carey.  
*laxiflora* Lam. var. *blanda* (Dewey) Boott.  
*conoidea* Schkuhr.  
*grisea* Wahlenb.  
*glaucodea* Tuckerm. Mt. Holyoke, etc., E. Tuckerman and H. G. Jesup.  
*granularis* Muhl. Amherst, E. Hitchcock, and northward.  
*flava* L.  
*longirostris* Torr.  
*arctata* Boott. Leyden, E. Hitchcock; Easthampton, Dr. N. A. Cobb.  
*debilis* Michx.  
*debilis* Michx. var. *Rudgei* Bailey.  
*scabrata* Schwein.  
*filiformis* L.  
*lanuginosa* Michx.  
*vestita* Willd.  
*trichocarpa* Muhl. Amherst, Hitchc. Catal.  
*riparia* W. Curtis.  
*squarrosa* L. Hadley, E. Hitchcock; South Hadley, H. G. Jesup.  
*comosa* Boott.  
*hystericina* Muhl.  
*lurida* Wahlenb. Fernald in *Rhodora*, Vol. III, p. 56.  
*lurida* X *lupulina* Bailey. Fernald in *Rhodora*, Vol. III, p. 56.  
*retrorsa* Schwein.  
*lupulina* Muhl. Amherst, Fernald; in *Rhodora*, Vol. III, p. 56.  
*intumescens* Rudge.  
*folliculata* L.  
*vesicaria* L.  
*rostrata* Stokes var. *utriculata* (Boott.) Bailey.  
*Tuckermani* Dewey.

## ARACEAE

**Arisaema** Martins. Indian Turnip. Dragon Arum.

*triphyllum* (L.) Schott. Indian Turnip. Jack-in-the-Pulpit.

**Dracontium** (L.) Schott. Green Dragon. Dragon Root. Deer-field. *Rhodora*, Vol. XII, p. 169. Sunderland, Belchertown, South Hadley. This rare plant is now extinct in some of the former stations.

**Peltandra** Raf. Arrow Arum.

*virginica* (L.) Kunth. Belchertown.

**Calla** L. Water Arum.

*palustris* L.

**Symplocarpus** Salisb. Skunk Cabbage.

*foetidus* (L.) Nutt.

**Orontium** L. Golden Club.

*aquaticum* L. Hampton pond, E. Tuckerman; Southwick, Porter; Springfield, S. Stebbins. Rare; Westfield; Slow brook, east of Mt. Tom, Dr. N. A. Cobb.

**Acorus** L. Sweet Flag. Calamus.

*Calamus* L.

## LEMNACEAE

**Spirodela** Schleiden.

*polyrhiza* (L.) Schleid.

**Lemna** L. Duckweed. Duck's-meat.

*trisulca* L.

*minor* L.

## ERIOCAULACEAE

**Eriocaulon** [Gronov.] L. Pipewort.

*articulatum* (Huds.) Morong.

## XYRIDACEAE

**Xyris** [Gronov.] L. Yellow-eyed Grass.

*montana* Ries. Lock's pond, Shutesbury, etc.; E. Tuckerman, H. G. Jesup.

*caroliniana* Walt. Indian Orchard. Herb. Spfld Sci. Museum.

*flexuosa* Muhl. Shutesbury, H. G. Jesup. Bay St., Springfield, etc.

## COMMELINACEAE

**Tradescantia** (Rupp.) L. Spiderwort.

*virginiana* L. Occasionally escaped.

**Commelina** (Plum.) L.

*COMMUNIS* L. Springfield, L. Andrews.

## PONTEDERIACEAE

**Pontederia** L. Pickerel Weed.

*cordata* L.

*cordata* L. var. *angustifolia* Torr.

**Heteranthera** R. and P. Mud Plantain.

*dubia* (Jacq.) MacM.

## JUNCACEAE

**Juncus** [Tourn.] L. Rush. Bog Rush.

*biflorus* L.

*tenuis* Willd.

*filiformis* L. Hadley meadows, E. Tuckerman.

*effusus* L. Common or Soft Rush.

*brevicaudatus* (Engelm.) Fernald. Mt. Toby, H. G. Jesup. Springfield, L. Andrews.

*canadensis* J. Gay. Mt. Toby, H. G. Jesup.

*pelocarpus* Meyer. Shores of Lock's pond, etc., E. Tuckerman; Leverett pond, H. G. Jesup. Indian Orchard.

*nodosus* L. Hockanum, Whitmore's Ferry, etc., E. Tuckerman.

*acuminatus* Michx.

*articulatus* L. Mill Hollow, Amherst, etc., E. Tuckerman and H. G. Jesup.

*marginatus* Rostk. Amherst, etc., E. Tuckerman.

**Luzula** DC. Wood Rush.

*saltuensis* Fernald.

*campestris* (L.) DC.

## LILIACEAE

**Veratrum** [Tourn.] L. False Hellebore.

*viride* Ait. American White Hellebore. Indian Poke.

**Uvularia** L. Bellwort.

*perfoliata* L.

**Oakesia** Watson.

*sessilifolia* (L.) Watson.

**Allium** [Tourn.] L. Onion. Garlic.

*tricoccum* Ait. Wild Leek.

*canadense* L. Wild Garlic.

**Hemerocallis** L. Day Lily.

*FULVA* L. Common Day Lily. Escaped from cultivation.

**Lilium** L. Lily.

*philadelphicum* L. Wild Orange-red Lily or Wood Lily.

*superbum* L. Turk's-cap Lily.

*canadense* L. Wild Yellow Lily.

- Erythronium** L. Dog's tooth Violet.  
*americanum* Ker. Yellow Adder's Tongue.
- Ornithogalum** [Tourn.] L. Star of Bethlehem.  
 UMBELLATUM L. More or less common throughout the range.
- Muscari** [Tourn.] Mill. Grape Hyacinth.  
*botryoides* (L.) Mill. Amherst. Persistent for many years.
- Asparagus** [Tourn.] L. Asparagus.  
*officinalis* L. Garden Asparagus.
- Clintonia** Raf.  
*borealis* (Ait.) Raf.
- Smilacina** Desf. False Solomon's Seal.  
*racemosa* (L.) Desf. False Spikenard.  
*stellata* (L.) Desf.  
*trifolia* (L.) Desf. Pelham and Cummington, E. Hitchcock.  
 Plumtrees, Sunderland.
- Maianthemum** (Weber in.) Wiggers.  
*canadense* Desf.
- Streptopus** Michx. Twisted Stalk.  
*amplexifolius* (L.) DC. Pelham, Deerfield, E. Tuckerman. Mt. Toby.  
*roseus* Michx. Mt. Toby, etc.
- Polygonatum** [Tourn.] Hill. Solomon's Seal.  
*biflorum* (Walt.) Ell. Small Solomon's Seal.  
*commutatum* (R. and S.) Dietr. Great Solomon's Seal.
- Convallaria** L. Lily of the Valley.  
 MAJALIS L. Escaped from cultivation.
- Medeola** [Gronov.] L. Indian Cucumber Root.  
*virginiana* L.
- Trillium** L. Wake Robin. Birthroot.  
*erectum* L.  
*grandiflorum* (Michx.) Salisb. Pelham, E. Hitchcock. Not found  
 in recent years.  
*cernuum* L.  
*undulatum* Willd. Painted Trillium.
- Aletris** L. Colic Root.  
*farinosa* L.
- Smilax** [Tourn.] L. Green Brier.  
*herbacea* L. Carrion Flower.  
*rotundifolia* L. Common Green Brier.

## AMARYLLIDACEAE

- Hypoxis** L. Star Grass.  
*hirsuta* (L.) Coville.

## IRIDACEAE

*Iris* [Tourn.] L. Fleur-de-lis.

*versicolor* L. Larger Blue Flag.

*germanica* L. Fleur-de-lis. Mt. Toby, H. L. Clark in *Rhodora*, Vol. I, page 165.

*Belamcanda* Adans. Blackberry Lily.

*chinensis* (L.) DC. Escaped, South Hadley, Mrs. C. S. Phelps.

*Sisyrinchium* L. Blue-eyed Grass.

*mucronatum* Michx.

*angustifolium* Mill.

*gramineum* Curtis.

*atlanticum* Bicknell.

## ORCHIDACEAE

*Cypripedium* L. Lady's Slipper. Moccasin Flower.

*arietinum* R. Br. Ram's Head Lady's Slipper. Mt. Toby, W. S. Clark. This is the only station which we know in this region, and it is often found here quite plentifully.

*parviflorum* Salisb. Smaller Yellow Lady's Slipper. Mt. Holyoke, E. Tuckerman; Shelburne, F. G. Tucker-man; Hawley, Buckland, W. D. Forbes; Northfield, Shutesbury, etc. A cross apparently between *parviflorum* and *pubescens* is found on the banks of the Conn. river at Gill, E. H. Sharpe.

*parviflorum* Salisb. var. *pubescens* (Willd.) Knight. Larger Yellow Lady's Slipper.

*hirsutum* Mill. Showy Lady's Slipper. Deerfield, E. Hitchcock; Easthampton, W. S. Clark; Mt. Holyoke, H. G. Jesup; Hawley, W. D. Forbes; Mt. Toby, C. S. Plumb, 1880. This plant has become exterminated in many of the stations enumerated above due to the activities of professional collectors.

*acaule* Ait. Stemless Lady's Slipper. A white flowered form is frequently found.

*Orchis* [Tourn.] L.

*spectabilis* L. Showy Orchis.

*Habenaria* Willd. Rein Orchis. Fringed Orchis.

*bracteata* (Willd.) R. Br. Rather common in mountainous regions.

*flava* (L.) Gray.

*hyperborea* (L.) R. Br.

*dilatata* (Pursh.) Gray. Plumtrees Swamp, Sunderland, etc.

*H. clavellata* (Michx.) Spreng.

*Hookeri* Torr.

*orbiculata* (Pursh.) Torr.

*ciliaris* (L.) R. Br. Yellow Fringed Orchis. East Amherst, C.H.

Hitchcock; Easthampton, W. S. Clark. Rare and extremely local plant; not collected for several years in this region.

*blephariglottis* (Willd.) Torr. White Fringed Orchis.

*blephariglottis* (Willd.) Torr. var. *holopetala* (Lindl.) Gray. Hawley, W. D. Forbes.

*blephariglottis* (Willd.) Torr.  $\times$  *H. lacera* (Michx.) R. Br. A form has been noted by W. D. Forbes in Hawley, a cross between the above named.

*lacera* (Michx.) R. Br. Ragged Fringed Orchis.

*psycodes* (L.) Sw. This species much resembles the following. Both are called Purple Fringed Orchis.

*fimbriata* (Ait.) R. Br.

*Pogonia* Juss.

*ophioglossoides* (L.) Ker.

*trianthophora* (Siv.) BSP. Deerfield, E. Hitchcock; Conway.

*verticillata* (Willd.) Nutt. Amherst, Deerfield, E. Tuckerman; Mt. Holyoke (Notch); Longmeadow, Springfield, West Northfield; N. Leverett, Miss Ruby Hemenway; Easthampton, W. S. Clark, 1844; Belchertown, Mrs. E. W. Carpenter and Marion Thompsonson.

*affinis* Aust. Holyoke range, H. L. Clark; in *Rhodora*, Vol. I, p. 165.

*Calopogon* R. Br.

*pulchellus* (Sw.) R. Br.

*Arethusa* [Gronov.] L.

*bulbosa* L.

*Spiranthes* Richard. Ladies' Tresses.

*gracilis* (Bigelow) Beck.

*vernalis* Engelm. and Gray. Buckland, W. D. Forbes.

*lucida* (H. H. Eaton) Ames. Amherst, G. L. Goodale; Conway, H. G. Jesup; Buckland, W. D. Forbes; Colrain, E. F. Williams.

*cernua* (L.) Richard.

*Epipactis* (Haller) Boehm. Rattlesnake Plantain.

*repens* (L.) Crantz.

*repens* (L.) Crantz. var. *ophioides* (Fernald) A. A. Eaton. Southwick; M. L. Fernald in *Rhodora*, Vol. I, p. 6.

*tesselata* (Lodd) A. A. Eaton. Springfield, L. Andrews.

*decipiens* (Hook) Ames. Buckland, W. D. Forbes. But one specimen of the plant found by Mr. Forbes.

*pubescens* (Willd.) A. A. Eaton.

**Listera** R. Br. Twayblade.

*cordata* (L.) R. Br. Plainfield, Porter.

**Corallorrhiza** [Haller] R. Br. Coral Root.

*trifida* Chatelain. Amherst, W. S. Clark; Buckland, W. D. Forbes; Sunderland, Plumtrees Swamp; Leverett, Mt. Toby and Pelham.

*maculata* Raf. Easthampton, E. Hitchcock; Mt. Toby, H. G. Jesup; N. Leverett, R. E. Torrey; Buckland, W. D. Forbes; Mt. Holyoke, Amherst.

*odontorhiza* Nutt.

**Microstylis** (Nutt.) Eaton. Adder's Mouth.

*monophyllos* (L.) Lindl. Hawley, W. D. Forbes.

*unifolia* (Michx.) BSP. Deerfield, E. Hitchcock; Shutesbury, E. H. Sharpe; Springfield, Dr. W. H. Chapin; Belchertown, R. E. Torrey.

**Liparis** Richard. Twayblade.

*liliifolia* (L.) Richard.

*Loeselii* (L.) Richard. Plumtrees swamp, Sunderland, A. V. Osmun; Amherst, H. L. Clark; Mt. Toby.

**Aplectrum** (Nutt.) Torr. Putty Root. Adam-and-Eve.

*hyemale* (Muhl.) Torr. Mt. Holyoke, Conway, E. Hitchcock; Buckland, W. D. Forbes.

**Tipularia** Nutt. Crane Fly Orchis.

*discolor* (Pursh) Nutt. Deerfield, E. Hitchcock. Probably not in our range; never verified by other collectors.

## DICOTYLEDONEAE

### SALICACEAE

**Salix** [Tourn.] L. Willow. Osier.

*nigra* Marsh. Black Willow.

*nigra* Marsh. var. *falcata* (Pursh) Torr. Springfield, L. Andrews.

*lucida* Muhl. Shining Willow.

    FRAGILIS L. Crack Willow.

    ALBA L. White Willow.

    ALBA L. var. *VITELLINA* (L.) Koch.

*Babylonica* L. Weeping Willow. Sometimes escapes to river banks, etc.

*longifolia* Muhl. Sand Bar Willow. Islands of Conn. river, H. G. Jesup.

*cordata* Muhl.

- S.** *pedicellaris* Pursh. Deerfield, E. Tuckerman.  
*discolor* Muhl. Glaucous Willow.  
*humilis* Marsh. Prairie Willow.  
*tristis* Ait. Dwarf Gray Willow.  
*sericea* Marsh. Silky Willow.  
*rostrata* Richards.  
**PURPUREA** L. Purple Willow. Near Conway, H. G. Jesup; Glenwood, Springfield.
- Populus** [Tourn.] L. Poplar. Aspen.  
*alba* L. White Poplar. Silver Leaved Poplar.  
*tremuloides* Michx. American Aspen.  
*grandidentata* Michx. Large-toothed Aspen.  
*balsamifera* L. Balsam Poplar.  
*candidans* Ait. Balm of Gilead.  
*deltoides* Marsh. Cottonwood. Necklace Poplar.  
**NIGRA** L. Black Poplar. Occasionally spreading by root suckers. var. *ITALICA* Du Roi. Rarely, if ever, spreading.

### MYRICACEAE

- Myrica** L.
- Gale* L. Sweet Gale. Gill, E. H. Sharpe; Shutesbury, R. E. Torrey; Belchertown, etc.
- carolinensis* Mill. Bayberry. Wilbraham, E. Longfellow, Dr. W. H. Chapin; Conway, etc. Much more common near the coast.
- asplenifolia* L. Sweet Fern.

### JUGLANDACEAE

- Juglans** L. Walnut.
- cinerea* L. Butternut.
- nigra* L. Black Walnut. Native in Amherst, etc., but rare in our range.
- Carya** Nutt. Hickory.
- ovata* (Mill.) K. Koch. Shagbark Hickory.
- alba* (L.) K. Koch. Mockernut.
- glabra* (Mill.) Spach. Pig Nut.
- cordiformis* (Wang.) K. Koch. Bitter Nut.

## BETULACEAE

**Corylus** [Tourn.] L. Hazelnut. Filbert.

*americana* Walt. Hazelnut. Prof. S. T. Maynard discovered some years ago a purple-leaved hazelnut near Mt. Toby, which has been propagated as a horticultural variety.

*rostrata* Ait. Beaked Hazelnut.

**Ostrya** (Mich.) Scop. Leverwood.

*virginiana* (Mill.) K. Koch. Hop Hornbeam.

**Carpinus** [Tourn.] L. Ironwood.

*caroliniana* Walter. Blue or Water Beech.

**Betula** [Tourn.] L. Birch.

*lenta* L. Sweet or Black Birch.

*lutea* (Michx.) f. Yellow or Gray Birch.

*populifolia* Marsh. White or Gray Birch.

*alba* L. var. *papyrifera* (Marsh) Spach. Paper, Canoe or White Birch.

*pumila* L. Low or Swamp Birch. Amherst region. Eaton Man.

**Alnus** [Tourn.] Hill. Alder.

*crispa* (Ait.) Pursh. Conway; Deerfield, H. G. Jesup.

*mollis* Fernald. Downy Green Alder. Buckland, M. L. Fernald in *Rhodora*, Vol. VI, p. 163.

*incana* (L.) Muench. Speckled or Hoary Alder.

*rugosa* (Du Roi) Spreng. Smooth Alder.

## FAGACEAE

**Fagus** [Tourn.] L. Beech.

*grandifolia* Ehrh. More common on our western border, where it forms large forests.

**Castanea** [Tourn.] Hill. Chestnut.

*dentata* (Marsh.) Borkh.

**Quercus** [Tourn.] L. Oak.

*alba* L. White Oak.

*bicolor* Willd. Swamp White Oak.

*prinoides* Willd. Chinquapin Oak.

**Prunus** L. Chestnut Oak.

*rubra* L. Red Oak.

*palustris* Muench. Pin Oak. More or less common in Conn. Valley lowlands.

*coccinea* Muench. Scarlet Oak.

*velutina* Lam. Yellow-barked or Black Oak.

*ilicifolia* Wang. Bear or Black Scrub Oak.

## URTICACEAE

***Ulmus*** [Tourn.] L. Elm.

*fulva* Michx. Slippery Elm. Local.

*americana* L. American Elm.

***Celtis*** [Tourn.] L. Nettle-tree. Hackberry.

*occidentalis* L. Sugarberry. Local.

*occidentalis* L. var. *pumila* Muhl. Mt. Holyoke, H. G. Jesup.

*occidentalis* L. var. *crassifolia* (Lam.) Gray. Hadley, E. Tuckerman; Amherst.

***Cannabis*** [Tourn.] L. Hemp.

SATIVA L.

***Humulus*** L. Hop.

***Lupulus*** L. Common Hop.

*japonicus* Sieb. and Zucc. Clay-pit dumping ground, Springfield, L. Andrews.

***Morus*** [Tourn.] L. Mulberry.

*rubra* L. Red Mulberry. Uncommon.

*ALBA* L. White Mulberry. Amherst, etc.

***Urtica*** [Tourn.] L. Nettle.

*gracilis* Ait.

URENS L.

***Laportea*** Gaud. Wood Nettle.

*canadensis* (L.) Gaud.

***Pilea*** Lindl. Richweed.

*pumila* (L.) Gray.

***Boehmeria*** Jacq. False Nettle.

*cylindrica* (L.) Sw.

***Parietaria*** [Tourn.] L. Pellitory.

*pennsylvanica* Muhl. Sugar Loaf, Mt. Toby, etc.

## SANTALACEAE

***Comandra*** Nutt. Bastard Toad-flax.

*umbellata* (L.) Nutt.

## LORANTHACEAE

***Arceuthobium*** Bieb.

*pusillum* Peck. Dwarf Mistletoe. Parasitic on Black Spruce.

## ARISTOLOCHIACEAE

***Asarum*** [Tourn.] L. Wild Ginger.

*canadense* L.

***Aristolochia*** [Tourn.] L. Birthwort.

*Serpentaria* L. Virginia Snakeroot. Included in Dr. Tucker-man's list as from Turners Falls, but doubtful.

## POLYGONACEAE

**Rumex** L. Dock. Sorrel.

*Patientia* L. Patience Dock. Rather uncommon.

**Britannica** L. Great Water Dock. Amherst, etc., H. G. Jesup.

**CRISPUS** L. Yellow Dock.

**SANGUINEUS** L. See Britton and Brown's Ill. Flora of n. U. S. and Can., Vol. I, p. 551.

**ELONGATUS** Guss. Orchard St., Springfield, L. Andrews.

**altissimus** Wood. Pale Dock. Herb. Spfld Sci. Museum.

**verticillatus** L. Swamp Dock. Granby, H. G. Jesup.

**OBTUSIFOLIUS** L. Bitter Dock.

**ACETOSA** L. Garden Sorrel. Grass land. Common at Amherst, etc.

**HASTATULUS** Baldw. Roadsides, Amherst, S. T. Maynard.

**ACETOSELLA** L. Field or Sheep Sorrel.

**Polygonum** [Tourn.] L. Knotweed.

*aviculare* L.

*aviculare* L. var. *vegetum* Ledeb.

*erectum* L.

*tenue* Michx.

*lapathifolium* L.

*amphibium* L.

**Muhlenbergii** (Meisn.) Wats. Springfield, L. Andrews.

**pennsylvanicum** L.

**Careyi** Olney. East Amherst, etc., C. H. Hitchcock.

**Hydropiper** L. Common Smartweed.

**acre** HBK. Water Smartweed.

**acre** HBK. var. *leptostachyum* Meisn. Herb. Spfld Sci. Museum, L. Andrews.

**ORIENTALE** L. Prince's Feather.

**PERSICARIA** L. Lady's Thumb. Common in barnyards, etc.

**hydropiperoides** Michx. Mild Water Pepper.

**virginianum** L.

**arifolium** L. Halberd-leaved Tear-thumb.

**sagittatum** L. Arrow-leaved Tear-thumb.

**CONVOLVULUS** L. Black Bindweed.

**cilinode** Michx.

**scandens** L. Climbing False Buckwheat.

**cuspidatum** Sieb. and Zucc. Springfield, L. Andrews. Two species, *P. Sachalinense* Schmidt and *cuspidatum*, have been cultivated at the Mass. Agricultural College for 15 years. The latter is well established; the former, termed Sacaline, does not show a tendency to become so. Both were introduced from Japan as forage plants.

***Fagopyrum*** [Tourn.] L. Buckwheat.

ESCULENTUM Muench. Buckwheat. In waste places and persisting after cultivation.

***Polygonella*** Michx.

***articulata*** (L.) Meisn.

## CHENOPODIACEAE

***Kochia*** Roth.

***Scoparia*** (L.) Schrad. Springfield, escaped from gardens, L. Andrews.

***Chenopodium*** [Tourn.] L.

BOTRYS L. Jerusalem Oak.

***ambrosioides*** L. Mexican Tea. Springfield, L. Andrews.

***capitatum*** (L.) Asch. Strawberry Blite. Rare, E. Hitchcock.

HYBRIDUM L. Maple-leaved Goosefoot.

ALBUM L. Lamb's Quarters.

ALBUM L. var. ***VIRIDE*** (L.) Moq. Springfield, L. Andrews.

***Salsola*** L. Saltwort.

***Kali*** L. var. ***tenuifolia*** G. F. W. Mey. Russian Thistle. Occasionally on railroad banks, etc.; the seed coming in with grass seed and also by western freight. Slightly established at B. & M. R. R. station, Amherst, S. C. Brooks (1910), and at Springfield, Dr. W. H. Chapin.

## AMARANTHACEAE

***Amaranthus*** [Tourn.] L. Amaranth.

RETROFLEXUS L. Green Amaranth; Pigweed.

***hybridus*** L.

***hybridus*** L. forma ***hypochondriacus*** L. Green Amaranth. Springfield, L. Andrews.

***paniculatus*** L. Purple Amaranth. Springfield, L. Andrews.

GRAECIZANS L. Tumble Weed.

***spinosus*** L. Thorny Amaranth. Herb. Spfld Sci. Museum, and Herb. Mt. Holyoke College.

## PHYTOLACCACEAE

***Phytolacca*** [Tourn.] L. Pokeweed.

***decandra*** L.

## NYCTAGINACEAE

**Oxybaphus** L' Her.*nyctagineus* (Michx.) Sweet. Springfield, L. Andrews.

## ILLECEBRACEAE

**Scleranthus** L. Knawel.

ANNUUS L.

**Anychia** Michx. Forked Chickweed.*canadensis* (L.) BSP.

## AIZOACEAE

**Mollugo** L. Indian Chickweed.

VERTICILLATA L. Carpet Weed.

## CARYOPHYLLACEAE

**Spergularia** J. and C. Presl. Sand Spurrey.*rubra* (L.) J. and C. Presl. Common on roadsides.**Spergula** L.

ARVENSISS L. Corn Spurrey.

**Sagina** L. Pearlwort.*decumbens* (Ell.) T. and G. Springfield, M. L. Owen (1883); Amherst, H. G. Jesup.*procumbens* L.**Arenaria** L. Sandwort.*lateriflora* L.

SERPYLLIFOLIA L. Thyme-leaved Sandwort.

*stricta* Michx.**Stellaria** L. Chickweed. Starwort.*borealis* Bigel.*uliginosa* Murr. South Deerfield, H. G. Jesup.*longifolia* Muhl.

GRAMINEA L. Amherst, etc.; now common.

MEDIA (L.) Cyrill. Common Chickweed.

**Cerastium** L. Mouse-ear Chickweed.*arvense* L. Field Mouse-ear Chickweed. Plumtrees, Sunderland; Mt. Toby.*arvense* L. var. *oblongifolium* (Torr.) Hollick and Britton. Mt. Tom, June, 1882; Herb. Mt. Holyoke College.**Vulgatum** L. Common Mouse-ear Chickweed. Now very common, but included by mistake in Prof. Tucker-man's list; he not having observed it in 1875.

VISCOSUM L.

*nutans* Raf. Hadley, etc.

**Agrostemma** L. Corn Cockle.

*Githago* L. In grain fields, etc.

**Lychnis** [Tourn.] L. Campion.

**FLOS-CUCULI** L. Ragged Robin. Found in grass lands. Amherst, etc. Spreading, and becoming well established.

**DIOICA** L. Red Campion. Roadsides, etc.

*alba* Mill. White Campion. Amherst, A. V. Osmun. Springfield, L. Andrews.

**Silene** L. Catchfly.

*antirrhina* L. Sleepy Catchfly.

*Armeria* L. Sweet William Catchfly. Springfield, L. Andrews.

*noctiflora* L. Night-flowering Campion.

*pennsylvanica* Michx. Wild Pink.

*stellata* (L.) Ait. f. Starry Campion. South Hadley.

**LATIFOLIA** (Mill.) Britten & Rendle. Bladder Campion. Amherst, etc.

**Saponaria** L.

**OFFICINALIS** L. Bouncing Bet.

**Gypsophila** L.

*muralis* L. Springfield, etc.

*paniculata* L. Tall Gypsophyll. Springfield, L. Andrews.

See Britton & Brown's *Illustrated Flora*, Vol. II, p. 17.

**Dianthus** L. Pink. Carnation.

**ARMERIA** L. Deptford Pink.

### POR TULACACEAE

**Claytonia** [Gronov.] L. Spring Beauty.

*virginica* L.

*caroliniana* Michx. Amherst, H. G. Jesup.

**Portulaca** [Tourn.] L. Purslane.

**OLERACEA** L. Common Purslane. A pernicious weed.

*grandiflora* Hook. Occasionally escaped.

### CERATOPHYLLACEAE

**Ceratophyllum** L. Hornwort.

*demersum* L. Ponds, etc.

### NYMPHAEACEAE

**Nymphaea** [Tourn.] L. Yellow Pond Lily. Spatter-dock.

*advena* Ait. Cow Lily.

*microphylla* Pers. Conn. river, ponds, etc.

**Castalia** Salisb. Water Lily.

*tetragona* Georg. Pansy Park, Belchertown. Escaped from cultivation. L. W. Goodell.

*odorata* (Ait.) Woodville & Wood. Sweet-scented Water Lily.

**Brasenia** Schreber. Water Shield.

*Schreberi* Gmel.

### RANUNCULACEAE

**Ranunculus** [Tourn.] L. Crowfoot. Buttercup.

*circinatus* Sibth. Stiff Water Crowfoot. Belchertown; Herb. Mt. Holyoke College.

*aquatilis* L. var. *capillaceus* DC. Common White Water Crowfoot.

*delphinifolius* Torr. Yellow Water Crowfoot.

*laxicaulis* (T. & G.) Darby. Water Plaintain. Spearwort.

*Flammula* L. var. *reptans* (L.) Mey. Creeping Spearwort. Shore of Conn. river.

*sceleratus* L. Cursed Crowfoot.

*abortivus* L. Small-flowered Crowfoot.

*recurvatus* Poir. Hooked Crowfoot.

*fascicularis* Muhl. Early Crowfoot.

*septentrionalis* Poir. Swamp Buttercup.

*hispidus* Michx. Longmeadow; Herb. Spfld Sci. Museum.

*pennsylvanicus* L. f. Bristly Crowfoot.

BULBOSUS L. Bulbous Buttercup.

ACRIS L. Tall Buttercup.

ACRIS L. var. STEVENI (Andrz.) Lange. Northampton; M. L. Fernald in *Rhodora*, Vol. I, p. 229.

**Thalictrum** [Tourn.] L. Meadow Rue.

*dioicum* L. Early Meadow Rue.

*polygamum* Muhl. Tall Meadow Rue.

**Anemonella** Spach.

*thalictroides* (L.) Spach. Rue Anemone.

**Hepatica** (Rupp.) Hill. Liverleaf. Hepatica.

*triloba* Chaix.

*acutiloba* DC. Conway, etc., H. G. Jesup; Amherst, E. L. Morris; Mt. Holyoke, etc.

**Anemone** [Tourn.] L. Anemone.

*cylindrica* Gray. Mt. Toby, H. G. Jesup, Aug., 1872; Sunderland.

*virginiana* L.

*canadensis* L. South Hadley, G. L. Goodale.

*quinquefolia* L. Wood Anemone.

**Clematis** L. Virgin's Bower.

*virginiana* L.

*verticillaris* DC. Greenfield, F. G. Tuckerman; Notch, Mt. Holyoke; Table Mountain, Mt. Toby; Mt. Tom; South Hadley; Rattlesnake Gutter, Leverett.

**Caltha** [Rupp.] L. Marsh Marigold.

*palustris* L.

**Coptis** Salisb. Goldthread.

*trifolia* (L.) Salisb.

**Aquilegia** [Tourn.] L. Columbine.

*canadensis* L. Wild Columbine.

**Cimicifuga** L. Bugbane.

*racemosa* (L.) Nutt. Black Snakeroot. Black Cohosh. Goshen, E. Hitchcock.

**Actaea** L. Baneberry. Cohosh.

*rubra* (Ait.) Willd. Red Baneberry.

*alba* (L.) Mill. White Baneberry.

### MAGNOLIACEAE

**Magnolia** L.

*tripetala* L. Umbrella Tree. Dr. W. H. Chapin has observed several of these trees, which have existed for a number of years on the shores of a pond in Springfield\*; and also in Edgewood Swamp stands a tree about nine years old. Both these stations are at least two miles away from any cultivated M. tripetala trees, and were probably seeded in through the agency of birds.

**Liriodendron** L. Tulip Tree.

*Tulipifera* L. Deerfield, E. Hitchcock; Gill, Bernardston, Southampton, Agawam, Huntington, etc.

### MENISPERMACEAE

**Menispermum** [Tourn.] L. Moonseed.

*canadense* L.

### BERBERIDACEAE

**Podophyllum** L. May Apple. Mandrake.

*peltatum* L. South Amherst, E. Hitchcock.

**Caulophyllum** Michx. Blue Cohosh.

*thalictroides* (L.) Michx. Pappoose Root.

**Berberis** [Tourn.] L. Barberry.

**VULGARIS** L. Common Barberry. Pastures, etc. More common near the coast.

## LAURACEAE

***Sassafras*** Nees.*variifolium* (Salisb.) Ktze.***Benzoin*** Fabric. Wild Allspice. Fever Bush.*aestivale* (L.) Nees. Spice Bush. Benjamin Bush.

## PAPAVERACEAE

***Sanguinaria*** (Dill.) L. Blood Root.*canadensis* L.***Chelidonium*** [Tourn.] L. Celandine.*MAJUS* L.

## FUMARIACEAE

***Adlumia*** Raf. Climbing Fumitory.*fungosa* (Ait.) Greene. Mt. Toby, etc.***Dicentra*** Bernh.***Cucullaria*** (L.) Bernh. Dutchman's Breeches. Westfield, C. S. Plumb; North Amherst, Northampton, South Hadley.***canadensis*** (Goldie) Walp. Squirrel Corn. Conway, G. L. Goodale; Leverett, E. H. Sharpe.***Corydalis*** (Dill.) Medic.*semperflorens* (L.) Pers. Pale Corydalis.***Fumaria*** [Tourn.] L. Fumitory.*OFFICINALIS* L. Common Fumitory.

## CRUCIFERAE

***Berteroa*** DC.*INCANA* (L.) DC. Springfield, Mrs. A. J. Smith and Dr. W. H. Chapin; Amherst, R. E. Torrey. Introduced in seed and spreading rapidly.***Alyssum*** [Tourn.] L.*alyssoides* L. Amherst, etc.***Lepidium*** [Tourn.] L. Pepperwort. Peppergrass.*virginicum* L. Wild Peppergrass.*apetalum* Willd. Springfield, Miss M. L. Owen.*CAMPESTRE* (L.) R. Br. Amherst.***Capsella*** Medic. Shepherd's Purse.*BURSA-PASTORIS* (L.) Medic.***Camelina*** Crantz. False Flax.*SATIVA* (L.) Crantz.*microcarpa* Andrz. Greenfield, E. F. Williams. *Rhodora*, Vol. XII, p. 169.

**Raphanus** [Tourn.] L. Radish.

RAPHANISTRUM L. Wild Radish. Jointed Charlock.

**Brassica** [Tourn.] L. Mustard. Turnip.

ALBA (L.) Boiss. White Mustard.

junccea (L.) Cosson. Herb. Spfld Sci. Museum.

NIGRA (L.) Koch. Black Mustard.

campestris L. Rutabaga. More or less common in waste places.

**Conringia** (Heist.) Link. Hare's-ear Mustard.

orientalis (L.) Dumort. Belchertown, R. E. Torrey.

**Sisymbrium** [Tourn.] L. Hedge Mustard.

OFFICINALE (L.) Scop.

officinale (L.) Scop. var. *leiocarpum* DC. Herb. Spfld Sci. Mus.

**Erysimum** [Tourn.] L. Treacle Mustard.

cheiranthoides L. Worm-seed Mustard. Mt. Toby, H. G. Jesup; Sunderland.

**Radicula** (Dill.) Hill. Water Cress.

NASTURTIUM-AQUATICUM (L.) Britten & Rendle. True Water Cress. More or less common in brooks.

SYLVESTRIS (L.) Druce. Yellow Cress.

palustris (L.) Muench. Marsh Cress.

palustris (L.) Muench. var. *hispida* (Desv.) Robinson. Leverett pond, R. E. Torrey.

ARMORACIA (L.) Robinson. Horse-radish. Persistent and spreading around old dwellings.

**Barbarea** R. Br. Winter Cress.

VULGARIS R. Br. Common Winter Cress. Yellow Rocket.

stricta Andr. Longmeadow; Herb. Spfld Sci. Museum.

**Dentaria** [Tourn.] L. Toothwort. Pepper-root.

diphylla Michx.

maxima Nutt. Springfield, Miss G. L. Pettis.

laciiniata Muhl. Deerfield, E. Hitchcock; Springfield, Miss G. L. Pettis; Amherst and Sunderland.

**Cardamine** [Tourn.] L. Bitter Cress.

bulbosa (Schreb.) BSP. Spring Cress.

pratensis L. Cuckoo Flower. Amherst, A. V. Osmun; Conway.

parviflora L.

pennsylvanica Muhl.

**Arabis** L. Rock Cress.

lyrata L. Mt. Tom, S. Stebbins.

Drummondii Gray.

hirsuta (L.) Scop.

laevigata (Muhl.) Poir.

canadensis L. Sickle-pod.

**Isates**

tinctoria L. Dyer's Wood. Amherst, Mass. Agr. College grounds.

See *Cyclopedia of Am. Hort.*, Bailey, p. 836.

## SARRACENIACEAE

**Sarracenia** [Tourn.] L.  
*purpurea* L. Pitcher-plant.

## DROSERACEAE

**Drosera** L. Sundew.  
*rotundifolia* L. Round-leaved Sundew.  
*longifolia* L.

## PODOSTEMACEAE

**Podostemum** Michx. River Weed.  
*ceratophyllum* Michx. In Conn. river, E. Hitchcock; South Hadley, Miss L. W. Shattuck.

## CRASSULACEAE

**Penthorum** [Gronov.] L. Ditch Stonecrop.  
*sedoides* L.  
**Sedum** [Tourn.] L. Stonecrop. Orpine.  
 ACRE L. Mossy Stonecrop. Occasional.  
*ternatum* Michx. Sunderland.  
*reflexum* L. Roadside, Leverett, H. G. Jesup.  
*PURPUREUM* Tausch. Garden Orpine. Live-for-ever. Roadsides.  
**Sempervirum** L. Houseleek.  
*tectorum* L.

## SAXIFRAGACEAE

**Saxifraga** [Tourn.] L. Saxifrage.  
*pennsylvanica* L. Swamp Saxifrage.  
*virginiensis* Michx. Early Saxifrage.  
**Tiarella** L. False Miterwort.  
*cordifolia* L.  
**Mitella** [Tourn.] L. Miterwort. Bishop's Cap.  
*diphylla* L.  
*nuda* L. East Amherst, H. G. Jesup; Plumtrees Swamp, C. S. Putnam.  
**Chrysosplenium** [Tourn.] L. Golden Saxifrage.  
*americanum* Schwein.  
**Parnassia** [Tourn.] L. Grass of Parnassus.  
*caroliniana* Michx.

**Ribes** L. Currant. Gooseberry.

**Cynosbati** L. Prickly Gooseberry. Dogberry. Conway, Mt. Tom, South Hadley.

**rotundifolium** Michx. West River Mt., E. Hitchcock.

**oxyacanthoides** L. Smooth Gooseberry.

**floridum** L'Her. Wild Black Currant.

**prostratum** L'Her. Skunk Currant. Belchertown, H. G. Jesup. VULGARE Lam. Red Currant. Escaped from gardens.

**aureum** Pursh. Missouri or Buffalo Currant. Escaped from cultivation.

### HAMAMELIDACEAE

**Hamamelis** L. Witch Hazel.

**virginiana** L.

### PLATANACEAE

**Platanus** [Tourn.] L. Sycamore. Buttonwood.

**occidentalis** L. River valleys. A noteworthy specimen of this tree, 20 feet in circumference, stands on Sunderland street. This is said to be the largest sycamore tree in Massachusetts.

### ROSACEAE

**Spiraea** [Tourn.] L.

**latifolia** Borkhr. Meadow-sweet.

**tomentosa** L. Hardhack. Steeple Bush.

**Sorbaria** A. Br.

**sorbifolia** (L.) A. Br. Amherst, N. Hadley road, W. D. Barlow.

**Pyrus** [Tourn.] L.

**MALUS** L. Apple. Frequently spontaneous.

**arbutifolia** (L.) L. f. Chokeberry.

**arbutifolia** (L.) L. f. var. **atropurpurea** (Britton) Robinson.

**melanocarpa** (Michx.) Willd. Northampton.

**americana** (Marsh.) DC. American Mountain Ash.

**AUCUPARIA** (L.) Ehrh. European Mountain Ash. Rowan Tree. Amherst, etc. Escaped.

**Amelanchier** Medic. Shad Bush.

**sanguinea** (Pursh.) DC. Millers Falls, Montague; K. M. Wiegand in *Rhodora*, Vol. XIV, p. 138.

**stolonifera** Wiegand. Millers Falls, Montague; *Rhodora*, Vol. XIV, p. 144.

**A.** *canadensis* (L.) Medic. *Rhodora*, Vol. XIV, p. 159.  
*laevis* Wiegand. Millers Falls, Montague. *Rhodora*, Vol. XIV,  
 p. 154.

*oblongifolia* (T. & G.) Roem. The extensive revision of this genus  
 makes it doubtful if this species is in our range.

**Crataegus** L. Hawthorne. This genus has been extensively revised  
 by Prof. C. S. Sargent in the last few years, and  
 our region has not been thoroughly explored.  
 Doubtless many other species exist here. Prof.  
 Sargent has already enumerated some 60 species  
 found in this state. The specific distinctions are  
 so fine that none but a specialist can identify them.

**CRUS-GALLI** L.

*punctata* Jacq.

*Gravesii* Sarg. Amherst; *Rhodora*, Vol. V, p. 159.

*coccinea* L.

*Stonei* Sarg. Smith Hill, Pelham, etc.; *Rhodora*, Vol. V, p. 62.

*tomentosa* L.

*rotundifolia* Muench.

*macrosperrma* Ashe. Springfield, L. Andrews.

*polita* Sarg. Springfield, L. Andrews.

*macracantha* Lodd.

**Fragaria** [Tourn.] L. Strawberry.

*virginiana* Duchesne.

*vesca* L. var. *americana* Porter. Mt. Holyoke, Mt. Toby, etc.

**Waldsteinia** Willd.

*fragarioides* (Michx.) Trattinick. Barren Strawberry. Apparently rare. See E. F. Williams in *Rhodora*, Vol. XII, p. 170.

**Potentilla** L. Cinquefoil. Five-finger.

*arguta* Pursh.

*monspeliensis* L. var. *novegica* (L.) Rydb.

*argentea* L. Silvery Cinquefoil.

**RECTA** L. Belchertown, R. E. Torrey; South Amherst, S. C. Brooks; Springfield, Dr. W. H. Chapin.

*palustris* (L.) Scop. Marsh Cinquefoil. Springfield, S. Stebbins.

*fruticosa* L. Shrubby Cinquefoil. More common in the Berkshires, where it becomes a noxious weed.

*tridentata* Ait. Three-toothed Cinquefoil. Hoosac Mountain, E. Hitchcock. Probably within our range.

*pumila* Poir. Springfield, L. Andrews.

*canadensis* L.

*canadensis* L. var. *simplex* (Michx.) T. & G. Springfield, L. Andrews.

**Geum** L. Avens.

*canadense* Jacq.

*flavum* (Porter) Bicknell. Herb. Spfld Sci. Museum.

*virginianum* L.

*strictum* Ait.

*rivale* L. Water or Purple Avens.

**Rubus** [Tourn.] L. Bramble.

*idaeus* L. var. *aculeatissimus* [C. A. Mey.] Regel & Tiling. Wild

Red Raspberry. This common raspberry should  
be called Rubus idaeus L. var. canadensis Rich.  
(See W. H. Blanchard in *Rhodora*, Vol. XI, p. 236.)

*occidentalis* L. Black Raspberry. Thimbleberry.

*odoratus* L. Purple Flowering Raspberry.

*triflorus* Richards. Dwarf Raspberry. This plant should be  
called Rubus pubescens Raf. (See W. H. Blanchard  
in *Rhodora*, Vol. XI, p. 236.)

*allegheniensis* Porter. Springfield, L. Andrews.

*frondosus* Bigel. Springfield, A. Andrews.

*Randii* (Bailey) Rydb. Springfield, L. Andrews.

*canadensis* L.

*Millspaughii* Britton. Common in highlands of New England.  
Ezra Brainerd in *Rhodora*, Vol. II, p. 26. Col-  
lected at Hawley, elevation about 1800 ft.

**Andrewsianus** Blanchard. Southwick. In *Rhodora*, Vol. VIII,  
p. 17.

*nigricans* Rydb. Herb. Spfld Sci. Museum.

*hispidus* L.

*villosus* Ait. Dewberry.

*villosus* Ait. var. *humifusus* T. & G. Herb. Spfld Sci. Museum.

*plicatifolius* Blanchard. Palmer and Munson. In *Rhodora*, Vol.  
VIII, p. 216.

**Rossbergianus** Blanchard. Palmer. Blanchard in *Rhodora*, Vol.  
IX, p. 7.

**Dalibarda** Kalm.

*repens* L. Greenfield, E. Tuckerman; Sunderland, Lake Wyola,  
R. E. Torrey; Warwick, Dr. N. A. Cobb.

**Agrimonia** [Tourn.] L. Agrimony.

*gryposepala* Wallr.

*striata* Michx. Herb. Spfld Sci. Museum.

*mollis* (T. & G.) Britton. Herb. Spfld Sci. Museum.

**Sanguisorba** [Rupp.] L. Burnet.

*canadensis* L. Canadian Burnet. Hadley, Sunderland, Amherst,  
Deerfield, etc.

**Rosa** [Tourn.] L. Rose.

*blanda* Ait. Mt. Holyoke.

CINNAMOMEA L. Cinnamon Rose. Persistent about dwellings.

RUBIGINOSA L. Sweetbrier. Eglantine.

GALLICA L. Garden Rose. Roadsides and fields.

*nitida* Willd. Springfield, L. Andrews.

*carolina* L.

*virginiana* Mill.

*humilis* Marsh. Plumtrees Swamp, A. V. Osmun; Springfield, L. Andrews.

*multiflora* Thunb. Escaping locally.

**Prunus** [Tourn.] L. Plum, Cherry, etc.

*serotina* Ehrh. Wild Black or Rum Cherry.

*virginiana* L. Choke Cherry.

*pennsylvanica* L. f. Wild Red, Bird, Fire or Pin Cherry.

*institia* C. Bullace Plum. Herb. Spfld Sci. Museum.

*cuneata* Raf. Springfield, L. Andrews.

*pumila* L. Sand Cherry.

*americana* Marsh. Wild Plum.

## LEGUMINOSAE

**Gleditsia** L. Honey Locust.

TRIACANTHOS L. Honey Locust. Escaped from cultivation.

**Cassia** [Tourn.] L. Senna.

*marilandica* L. Wild Senna.

*nictitans* L. Wild Sensitive Plant.

**Baptisia** Vent. False Indigo.

*tinctoria* (L.) R. Br. Wild Indigo.

**Crotaria** (Dill.) L. Rattle-box.

*sagittalis* L.

**Lupinus** [Tourn.] L. Lupine.

*perennis* L.

**Trifolium** [Tourn.] L. Clover. Trefoil.

ARVENSE L. Rabbit-foot. Stone Clover.

INCARNATUM L. Crimson or Italian Clover. Amherst. Occasionally persists.

PRATENSE L. Red Clover.

REPENS L. White Clover.

HYBRIDUM L. Alsike Clover. Common under cultivation and in fields.

AGRARIUM L. Yellow or Hop Clover.

PROCUMBENS L. Low Hop Clover.

**Melilotus** [Tourn.] Hill. Melilot. Sweet Clover.

*officinalis* (L.) Lam. Yellow Melilotus.

ALBA Desr. White Melilot.

**Medicago** [Tourn.] L. Medick.

SATIVA L. Lucerne. Alfalfa.

LUPULINA L. Black Medick. Nonesuch. Both species of Medicago were formerly rare, but now more common.

**Lotus** [Tourn.] L. Bird's Foot Trefoil.

*corniculatus* L. North Amherst, A. V. Osmun.

**Amorpha** L.

FRUTICOSA L. False Indigo. Escaped from cultivation and established near Mass. Agr. College grounds, Amherst; Springfield, L. Andrews.

**Tephrosia** Pers. Hoary Pea.

*virginiana* (L.) Pers. Goat's Rue. Catgut.

**Robinia** L. Locust.

PSEUDO-ACACIA L. Common Locust or False Acacia. Wellesley.

VISCOSA Vent. Clammy Locust. Persistent and spreading.

**Coronilla** L.

VARIA L. Amherst, etc.

**Desmodium** Desv. Tick Trefoil.

*nudiflorum* (L.) DC.

*grandiflorum* (Walt.) DC.

*rotundifolium* (Michx.) DC.

*canescens* (L.) DC.

*bracteosum* (Michx.) DC.

*Dillenii* Darlingt.

*paniculatum* (L.) DC.

*canadense* (L.) DC.

*rigidum* (Ell.) DC.

*marilandicum* (L.) DC.

**Lespedeza** Michx. Bush Clover.

*procumbens* Michx.

*violacea* (L.) Pers.

*hirta* (L.) Hornem.

*capitata* Michx.

*capitata* Michx. var. *velutina* (Bicknell) Fernald. Springfield, L. Andrews.

**Vicia** [Tourn.] L. Vetch. Tare.

SATIVA L. Spring Vetch.

ANGUSTIFOLIA (L.) Reichard. var. *segetalis* (Thuillier) Koch. Amherst; Springfield, L. Andrews.

**Cracca** L. Deerfield; Springfield, L. Andrews; Sunderland, H. G. Jesup; Monson, E. L. Morris; Lock's pond, Shutesbury, R. E. Torrey. More or less common now; previously rare. Probably native.

**Lathyrus** [Tourn.] L. Vetchling. Everlasting Pea.

*LATIFOLIUS* L. Everlasting or Perennial Pea. Amherst, etc.

*PRATENSIS* L. West Springfield, A. P. Foster; Springfield, Mrs. M. L. Owen.

**Apios** (Boerhaave) Ludwig. Groundnut. Wild Bean.

*tuberosa* Muench.

**Amphicarpa** Ell. Hog Peanut.

*monoica* (L.) Ell.

**Pitcheri** T. & G. Sunderland, R. E. Torrey.

#### LINACEAE

**Linum** [Tourn.] L. Flax.

*usitatissimum* L. Dumps and railroad embankments.

*virginianum* L.

#### OXALIDACEAE

**Oxalis** L. Wood Sorrel.

**Acetosella** L. Common Wood Sorrel. Amherst, Conway, etc.

*violacea* L. Violet Wood Sorrel. Notch, Mt. Holyoke, etc.

*stricta* L.

*corniculata* L. Lady's Sorrel.

*repens* Thunb. About greenhouses, etc.

#### GERANIACEAE

**Geranium** [Tourn.] L. Cranesbill.

*maculatum* L. Wild Cranesbill.

*Robertianum* L. Herb Robert.

*carolinianum* L.

*pusillum* Burm. f. In grass lands. Springfield, Mrs. M. L. Owen.

*molle* L. In grass lands. Springfield, Mrs. M. L. Owen.

#### RUTACEAE

**Zanthoxylum** L. Prickly Ash.

*americanum* Mill. Northern Prickly Ash. Toothache-tree. Sunderland, E. Hitchcock; Norwottuck, W. S. Clark.

**Ptelea** L. Hop Tree.

*TRIFOLIATA* L. Springfield, L. Andrews; Easthampton, Dr. N. A. Cobb; also seeding in freely where cultivated.

## SIMARUBACEAE

**Ailanthus** Desf. Tree of Heaven.

**GLANDULOSA** Desf. Established here and there, frequently under the most adverse conditions.

## POLYGALACEAE

**Polygala** [Tourn.] L. Milkwort.

**paucifolia** Willd. Fringed Polygala. Flowering Wintergreen.

**polygama** Walt.

**sanguinea** L.

**verticillata** L.

**verticillata** L. var. **ambigua** (Nutt.) Wood. Springfield, Mrs. A. J. Smith.

## EUPHORBIACEAE

**Acalypha** L. Three-seeded Mercury.

**virginica** L.

**Euphorbia** L. Spurge.

**Preslia** Guss.

**hirsuta** (Torr.) Wiegand. Springfield, L. Andrews.

**maculata** L. Milk Purslane.

**Ipecacuanhae** L. Enfield ; A. S. Pease in *Rhodora*, Vol. VI, p. 87.

**CYPARISSIAS** L. Cypress Spurge. Fruiting forms found in Greenfield; Walter Dean in *Rhodora*, Vol. XIV, page 194.

## CALLITRICHACEAE

**Callitricha** L. Water Starwort.

**palustris** L.

**heterophylla** Pursh. Near Mt. Warner ; H. L. Clark in *Rhodora*, Vol. I, p. 164 ; Springfield, L. Andrews.

## ANACARDIACEAE

**Rhus** L. Sumac.

**typhina** L. Staghorn Sumac.

**glabra** L. Smooth Sumac.

**copallina** L. Dwarf Sumac.

**Vernix** L. Poison Sumac or Dogwood.

**Toxicodendron** L. Poison Ivy. Poison Oak.

## AQUIFOLIACEAE

**Ilex** L.

**verticillata** (L.) Gray. Black Alder. Winterberry.  
**laevigata** (Pursh.) Gray. Smooth Winterberry. Belchertown ponds, H. G. Jesup; Southwick; C. H. Bissell in *Rhodora*, Vol. XIII, p. 54.

**Nemopanthus** Raf. Mountain Holly.

**mucronata** (L.) Trel.

## CELASTRACEAE

**Celastrus** L. Staff Tree. Shrubby Bitter-sweet.

**scandens** L. Waxwork. Climbing Bitter-sweet.

## STAPHYLEACEAE

**Staphylea** L. Bladder Nut.

**trifolia** L. American Bladder Nut. Sunderland, brooks of Conn. river, C. S. Plumb; Mt. Toby, A. V. Osmun; Plumtrees, Sunderland, Mt. Holyoke, Deerfield, North Hadley.

## ACERACEAE

**Acer** [Tourn.] L. Maple.

**pennsylvanicum** L. Striped Maple. Moosewood.

**spicatum** Lam. Mountain Maple.

**saccharum** Marsh. Sugar or Rock Maple.

**saccharum** Marsh. var. **nigrum** (Michx. f.) Britton. Black Sugar Maple. Many of our sugar maples in the Connecticut valley, if not identical with this variety, closely approach it in form, texture, color and pubescence of leaf and general habit.

**saccharinum** L. White or Silver Maple.

**rubrum** L. Red or Swamp Maple.

**rubrum** L. var. **tridens** Wood. Springfield, L. Andrews.

**Negundo** L. Box Elder. Western part of our range.

## SAPINDACEAE

**Aesculus** L. Horse-chestnut.

HIPPOCASTANUM L. Common Horse-chestnut. Occasionally propagates by seeds.

## BALSAMINACEAE

- Impatiens** (Rivinius) L. Balsam. Jewelweed.  
*pallida* Nutt. Pale Touch-me-not.  
*biflora* Walt. Spotted Touch-me-not.

## RHAMNACEAE

- Rhamnus** [Tourn.] L. Buckthorn.  
*alnifolia* L'Her. Deerfield, E. Hitchcock. Has not been found  
 by other collectors.  
**CATHARTICA** L. Common Buckthorn.  
**Ceanothus** L. Red-root.  
*americanus* L. New Jersey Tea.  
*ovatus* Desf. Springfield, W. E. Johnson.

## VITACEAE

- Pedera** Neck. Virginia Creeper. Woodbine.  
*quinquefolia* (L.) Greene.  
*quinquefolia* (L.) Greene. var. *hirsuta* (Donn) Rehder. Amherst;  
 A. Rehder in *Rhodora*, Vol. X, p. 26.  
**Ampelopsis**  
*heterophylla* Sieb. & Zucc. Escaping; Mass. Agr. College  
 grounds. (See Bailey's *Cyc. of Am. Hort.*, Vol. I,  
 p. 59.  
**Vitis** [Tourn.] L. Grape.  
*labrusca* L. Northern Fox Grape.  
*aestivalis* Michx. Summer or Pigeon Grape.  
*cordifolia* Michx. Frost or Chicken Grape.  
*vulpina* L. River-bank or Frost Grape.

## TILIACEAE

- Tilia** [Tourn.] L. Linden.  
*americana* L. Basswood.

## MALVACEAE

- Abutilon** [Tourn.] Mill. Indian Mallow.  
*Theophrasti* Medic. Velvet Leaf.  
**Malva** [Tourn.] L. Mallow.  
*ROTUNDIFOLIA* L. Common Mallow, Cheeses.  
*SYLVESTRIS* L. High Mallow.  
*MOSCHATA* L. Musk Mallow.  
**Hibiscus** L. Rose Mallow.  
*TRIONUM* L. Flower-of-an-hour. Springfield, L. Andrews.

## HYPERICACEAE

- Hypericum*** [Tourn.] L. St. John's-wort.  
***Ascyron*** L. Great St. John's-wort.  
***PERFORATUM*** L. Common St. John's-wort.  
***punctatum*** Lam.  
***ellipticum*** Hook.  
***mutilem*** L.  
***majus*** (Gray) Britton. Conway, H. G. Jesup; Springfield.  
***canadense*** L.  
***gentianoides*** (L.) BSP. Orange Grass. Pinweed.  
***virginicum*** L. Marsh St. John's-wort.

## CISTACEAE

- Helianthemum*** [Tourn.] Mill. Rockrose.  
***canadense*** (L.?) Michx. Frostweed.  
***Lechea*** (Kalm) L. Pinweed.  
***villosa*** Ell.  
***minor*** L.  
***intermedia*** Leggett. Springfield, L. Andrews.  
***maritima*** Leggett. var. ***interior*** Robinson. Training School grounds, Springfield, L. Andrews.  
***tenuifolia*** Michx. Southwick, S. Stebbins; Amherst, E. F. Bishop.

## VIOLACEAE

This genus, *Viola*, has recently been extensively revised and many new species have been added. The tendency to hybridization renders the determination of species difficult.

- Viola*** [Tourn.] L. Violet. Heart's-ease.  
***pedata*** L. Bird-foot Violet.  
***pedata*** L. var. ***lineariloba*** DC. Springfield, L. Andrews.  
***cucullata*** Ait.  
***latiuscula*** Greene.  
***papilionacea*** Pursh.  
***palmata*** L.  
***triloba*** Schwein. Springfield, L. Andrews.  
***sororia*** Willd.  
***septentrionalis*** Greene.  
***fimbriatula*** Sm.  
***sagittata*** Ait.  
***Selkirkii*** Pursh.  
***lanceolata*** L. Lance-leaved Violet.  
***primulifolia*** L. Primrose-leaved Violet.

- pallens* (Banks) Brainerd.  
*blanda* Willd. Notch, Mt. Holyoke, and Mt. Toby.  
*renifolia* Gray.  
*rotundifolia* Michx. Round-leaved or Early Yellow Violet.  
*pubescens* Ait. Downy Yellow Violet.  
*scabriuscula* Schwein.  
*canadensis* L. Canada Violet.  
*striata* Ait. Amherst, E. Hitchcock; South Hadley, Mrs. C. S. Phelps.  
*conspersa* Reichenb.  
*rostrata* Pursh. Long-spurred Violet. Whately Glen and Rattlesnake Gutter.  
**TRICOLOR** L. Pansy. Heart's-ease.  
**ARVENSIS** Murr. Wild Pansy.

#### THYMELAEACEAE

- Dirca** L. Leatherwood. Moosewood.  
**palustris** L. Wicopy.

#### ELAEAGNACEAE

- Elaeagnus** [Tourn.] L.  
*umbellata* Thunbg. Escaping freely on Mass. Agr. College grounds. See Bailey's *Cyc. of Am. Hort.*, Vol. II, p. 524.

#### LYTHRACEAE

- Ammannia** [Houston] L.  
 KOEHNEN Britton. Lombard Reservoir, Springfield, Dr. W. H. Chapin.  
**Decodon** J. F. Gmel. Swamp Loosestrife.  
*virticillatus* (L.) Ell. Water Willow. Belchertown, Sunderland, Springfield, etc.  
**Lythrum** L. Loosestrife.  
*alatum* Pursh. Sunderland, R. E. Torrey; Springfield, L. Andrews.  
**SALICARIA** L. Spiked Loosestrife. Wet places.  
**VIRGATUM** L.

#### MELASTOMACEAE

- Rhexia** L. Deer Grass. Meadow Beauty.  
**virginica** L. Leverett, Shutesbury, H. G. Jesup; Warwick, C. S. Plumb; Sunderland, A. V. Osmun. Rather rare, but abundant locally.

## ONAGRACEAE

*Ludwigia* L. False Loosestrife.

*alternifolia* L. Seedbox. Hadley, E. Tuckerman; Springfield, Mrs. M. L. Owen.

*polycarpa* Short and Peter. East Longmeadow, Dr. W. H. Chapin.

*palustris* (L.) Ell. Water Purslane.

*Epilobium* L. Willow-herb.

*angustifolium* L. Great Willow-herb. Fire-weed.

*molle* Torr. Sunderland, Amherst.

*densum* Raf.

*coloratum* Muhl.

*adenocaulon* Haussk.

*Oenothera* L. Evening Primrose.

*cruciata* Nutt. Sunderland, Northampton, etc., S. C. Brooks.

*muricata* L. Amherst, S. C. Brooks.

*biennis* L. Common Evening Primrose.

*grandiflora* Ait. Pansy Park, Belchertown, L. W. Goodell; Springfield. Escaped from cultivation.

*pumila* L.

*fruticosa* L. Sundrops. South Hadley, Mrs. C. S. Phelps.

*Circaea* [Tourn.] L. Enchanter's Nightshade.

*lutetiana* L.

*alpina* L.

## HALORAGIDACEAE

*Myriophyllum* [Vaill.] L. Water Milfoil.

*verticillatum* L.

*humile* (Raf.) Morong. Hadley, H. G. Jesup; Springfield, L. Andrews.

*humile* (Raf.) Morong. forma *capillaceum* (Torr.) Fernald. Herb. Spfld Sci. Museum.

*tenellum* Bigel.

*Proserpinaca* L. Mermaid-weed.

*palustris* L.

## ARALIACEAE

*Aralia* [Tourn.] L.

*racemosa* L. Spikenard.

*hispida* Vent. Bristly Sarsaparilla. Wild Elder.

*nudicaulis* L. Wild Sarsaparilla.

**Panax** L. Ginseng.

*quinquefolium* L. Ginseng. Deerfield, Conway, Mt. Toby, Amherst, etc. The ginseng of commerce, collected and cultivated for its medicinal roots.

*trifolium* L. Dwarf Ginseng. Ground-nut.

### UMBELLIFERAE

**Sanicula** [Tourn.] L. Sanicle. Black Snakeroot.

*marilandica* L.

*gregaria* Bicknell. Springfield, L. Andrews.

*canadensis* L.

**Hydrocotyle** [Tourn.] L. Water Pennywort.

*americana* L.

**Osmorhiza** Raf. Sweet Cicely.

*Claytoni* (Michx.) Clarke.

*longistylis* (Torr.) DC.

**Conium** L. Poison Hemlock.

*MACULATUM* L. A poisonous plant.

**Cicuta** L. Water Hemlock.

*maculata* L. Spotted Cowbane. Musquash Root. Beaver Poison.

*bulbifera* L.

**Carum** L. Caraway.

*CARVI* L. Caraway. Around old dwellings.

**Berula** Hoffm.

*erecta* (Huds.) Coville.

**Sium** [Tourn.] L. Water Parsnip.

*cicutaefolium* Shrank.

**Cryptotaenia** DC. Honewort.

*canadensis* (L.) DC.

**Zizia** Koch.

*aurea* (L.) Koch. Golden Alexanders.

**Taenidia** Drude.

*integerima* (L.) Drude. Montague, J. L. Bennett; Dr. N. A. Cobb's List.

**Thaspium** Nutt. Meadow Parsnip.

*aureum* Nutt.

**Pastinaca** L. Parsnip.

*SATIVA* L.

**Anethum** [Tourn.] L. Dill.

*graveolens* L. Feeding Hills, Springfield. Herb. Spfld Sci. Museum.

**Heracleum** L. Cow Parsnip.

*lanatum* Michx.

**Angelica** L. Angelica.

*atropurpurea* L.

**Daucus** [Tourn.] L. Carrot.

CAROTA L. One of our worst biennial weeds.

#### CORNACEAE

**Cornus** [Tourn.] L. Cornel. Dogwood.

*canadensis* L. Dwarf Cornel. Bunchberry.

*florida* L. Flowering Dogwood.

*circinata* L'Her. Round-leaved Cornel or Dogwood. A beautiful species found largely in rich humus of mountainous regions.

**Amomum** Mill. Silky Cornel. Kinnikinnik.

*stolonifera* Michx. Red-ozier Dogwood.

*paniculata* L'Her.

*alternifolia* L. f.

**Nyssa** L. Tupelo. Pepperidge. Sour Gum.

*sylvatica* Marsh. Black Gum. Generally distributed, but not well known.

#### ERICACEAE

**Clethra** [Gronov.] L. White Alder.

*alnifolia* L. Sweet Pepperbush. Belchertown swamp, R. E. Torrey. This is the most western station known to us in Mass. Common near the coast. A valuable honey plant.

**Chimaphila** Pursh. Pipsissewa.

*umbellata* (L.) Nutt. Prince's Pine. Pipsissewa.

*maculata* (L.) Pursh. Spotted Wintergreen. Less common than the preceding.

**Moneses** Salisb. One-flowered Pyrola.

*uniflora* (L.) Gray. Williamsburg, H. G. Jesup; Mt. Toby, H. L. Clark in *Rhodora*, Vol. I, p. 165; North Leverett, R. E. Torrey; Amherst.

**Pyrola** [Tourn.] L. Wintergreen. Shin Leaf.

*secunda* L.

*chlorantha* Sw.

*elliptica* Nutt. Shin Leaf.

*americana* Sweet.

*asarifolia* Michx.

**Monotropa** L. Pinesap.

*uniflora* L. Indian Pipe. Corpse Plant.

**Hypopitys** L. Pinesap. Fake Beech Drops.

**Pterospora** Nutt. Pine Drops.

*andromedea* Nutt. Easthampton, E. Hitchcock. Not observed by other collectors.

**Ledum** L. Labrador Tea.

*groenlandicum* Oeder. Amherst, Hitchcock Catal.; Greenfield, Plumtrees Road; Springfield, Miss F. A. Stebbins.

**Rhododendron** L.

*viscosum* (L.) Torr. Clammy Azalea. White Swamp Honey-suckle. Belchertown, etc. Rather rare and local. More common near the coast.

*viscosum* (L.) Torr. var. *glaucum* (Michx.) Gray. Springfield, L. Andrews.

*nudiflorum* (L.) Torr. Purple Azalea. Pinxter Flower.

*canescens* (Michx.) G. Don. This species seems to be more common than the preceding in the Conn. Valley. According to our observations a mark of distinction between the two is the simultaneous appearance of flowers and leaves in *R. canescens*.

*canadense* (L.) BSP. Rhodora.

**Kalmia** L. Laurel.

*latifolia* L. Mountain Laurel. Spoon-wood.

*latifolia* L. forma *polypetala* Nicholson. [See Alfred Rehder in *Rhodora*, Vol. XII, p. 1.] This interesting form of Kalmia was discovered by Miss M. Bryant at South Deerfield, and described by Asa Gray in the *Am. Nat.*, Vol. IV, p. 373; 1871. In this form the corolla is completely divided into linear or liliiform divisions. One of these forms is in the Arnold Arboretum, and Prof. C. S. Sargent has figured and described it in *Garden and Forest*, Vol. II, pp. 452-453. The writer discovered a similar form in Leverett near a roadside, in 1907. (See *Rhodora*, Vol. II, p. 199.) And in June, 1910, a large clump of the same was discovered at Mt. Toby.

*angustifolia* L. Sheep Laurel. Lambkill. Wicky.

*polifolia* Wang. Pale Laurel. Springfield, Dr. W. H. Chapin. Rare. Amherst.

**Andromeda** L.

*glaucophylla* Link. Bog Rosemary. Belchertown south pond, Hampton pond; Springfield, S. Stebbins and Dr. W. H. Chapin; Florence. See *Rhodora*, Vol. V, pp. 67-71.

*Lyonia* Nutt.*ligustrina* (L.) DC. Male Berry.*Chamaedaphne* Muench. Leather Leaf. Cassandra.  
*calyculata* (L.) Muench.*Epigaea* L. Ground Laurel. Trailing Arbutus.  
*repens* L. Mayflower.*Gaultheria* [Kalm] L. Aromatic Wintergreen.  
*procumbens* L. Teaberry. Checkerberry.*Arctostaphylos* Adans. Bearberry.  
*Uva-ursi* (L.) Spreng. Not common.*Calluna* Salisb. Heather. Ling.  
*vulgaris* (L.) Hull. Northfield, C. C. Frost. Probably an escape.*Chiogenes* Salisb. Creeping Snowberry.*hispidula* (L.) T. & G. Moxie Plum. Capillaire. Swamps, Springfield, Amherst, etc. Local.*Gaylussacia* HBK. Huckleberry.  
*frondosa* (L.) T. & G. Blue Tangle. Dangleberry.*baccata* (Wang.) C. Koch. Black Huckleberry.*Vaccinium* L. Blueberry. Cranberry.*stamineum* L. Deerberry. Squaw Huckleberry.*pennsylvanicum* Lam. Low Sweet Blueberry. Early Sweet Blueberry.*pennsylvanicum* Lam. forma *leucocarpum* Deane. The common blueberry runs into many forms, varying in color and translucency of the fruit. Forma *leucocarpum* with white fruit is most pronounced.*pennsylvanicum* Lam. var. *nigrum* Wood. Low Black Blueberry.*vacillans* Kalm. Late Low Blueberry.*corymbosum* L. High Blueberry.*atrococcum* (Gray) Heller. Black High Blueberry.*Oxycoccus* L. Small Cranberry.*macrocarpon* Ait. Large or American Cranberry.

## PRIMULACEAE

*Lysimachia* [Tourn.] L. Loosestrife.*punctata* L. Roadsides, South Amherst, H. G. Jesup. Not found at this station now. See *Rhodora*, Vol. IV, p. 62.*quadrifolia* L.*terrestris* (L.) BSP.

NUMMULARIA L. Moneywort. Common.

*thyrsiflora* L. Tufted Loosestrife.*Steironema* Raf.*ciliatum* (L.) Raf.

**Trientalis** L. Chickweed. Wintergreen.

**americana** (Pers.) Pursh. Star Flower. This plant should be called *Trientalis borealis* Raf. See W. H. Blanchard in *Rhodora*, Vol. XI, p. 236.

### OLEACEAE

**Fraxinus** [Tourn.] L. Ash.

**americana** L. White Ash. Our most common ash; the others more or less rare.

**pennsylvanica** Marsh. Red Ash.

**pennsylvanica** Marsh. var. **lanceolata** (Borkh.) Sarg. Green Ash.

**nigra** Marsh. Black Ash.

**Ligustrum** [Tourn.] L. Privet.

**VULGARE** L. Privet or Prim. Much more common near the coast.

### GENTIANACEAE

**Gentiana** [Tourn.] L. Gentian.

**crinita** Froel. Fringed Gentian.

**quinquefolia** L. Mt. Toby, H. G. Jesup; Hoosac Mountain (probably within our range), E. Hitchcock; Blandford, Mrs. S. T. Seelye; Cobb's List.

**Andrewsii** Griseb. Closed Gentian.

**linearis** Froel. Hoosac Mts. (within our range), S. C. Brooks.

**Halenia** Borkh. Spurred Gentian.

**deflexa** (Sm.) Grisebach. Cummington, H. G. Jesup.

**Bartonia** Muhl.

**virginica** (L.) BSP.

**Menyanthes** [Tourn.] L. Buckbean.

**trifoliata** L.

**Nymphoides** [Tourn.] Hill. Floating Heart.

**lacunosum** (Vent.) Fernald. Ponds, South Hadley, Belchertown, etc., S. C. Brooks.

### APOCYNACEAE

**Apocynum** [Tourn.] L. Dogbane. Indian Hemp.

**androsaemifolium** L. Spreading Dogbane.

**medium** Greene. Springfield, L. Andrews.

**cannabinum** L. Indian Hemp.

## ASCLEPIADACEAE

- Asclepias** [Tourn.] L. Milkweed. Silkweed.  
*tuberosa* L. Butterfly-weed. Pleurisy-root.  
*purpurascens* L. Purple Milkweed.  
*incarnata* L. Swamp Milkweed.  
*incarnata* L. var. *pulchra* (Ehrh.) Pers. Springfield, L. Andrews.  
*cannabinum* L. Indian Hemp.  
*syriaca* L. Common Milkweed or Silkweed.  
*amplexicaulis* Sm.  
*phytolaccoides* Pursh. Poke Milkweed.  
*quadrifolia* Jacq.  
*verticillata* L.

## CONVOLVULACEAE

- Ipomoea** L. Morning Glory.  
*purpurea* (L.) Roth.  
**Convolvulus** [Tourn.] L. Bindweed.  
*spithameus* L.  
*JAPONICUS* Thunb. Escaped from cultivation.  
*sepium* L. Hedge Bindweed.  
**Cuscuta** [Tourn.] L. Dodder.  
*Epithymum* Murr. Occasionally found parasitic on clover and alfalfa, causing "lodging" of the host plant. Introduced in clover seed, but not persisting.  
*arvensis* Beyrich. Occasionally affecting alfalfa and clover.  
*Gronovii* Willd. Common on alders, etc., but observed growing on raspberry bushes.

## POLEMONIACEAE

- Phlox** L.  
*paniculata* L. Persistent and occasionally escaped.  
*stolonifera* Sims. Amherst, E. N. Brown.

## HYDROPHYLACEAE

- Hydrophyllum** [Tourn.] L. Waterleaf.  
*virginianum* L. Rare.

## BORAGINACEAE

**Cynoglossum** [Tourn.] L. Hound's Tongue.  
OFFICINALE L. Common Hound's Tongue.

**boreale** Fernald. Mt. Toby, A. V. Osmun.

**Lappula** [Rivinius] Muench. Stickseed.

**virginiana** (L.) Greene. Beggar's Lice. Springfield, L. Andrews ; Amherst.

**Symphytum** [Tourn.] L. Comfrey.

OFFICINALE L. Common Comfrey. Waste places ; Belchertown, Leverett, etc.

**Lycopsis** L. Bugloss.

**arvensis** L. Small Bugloss. Amherst and Hatfield, E. Hitchcock.

**Myosotis** (Rupp.) L. Scorpion-grass. Forget-me-not.

SCORPIOIDES L. True Forget-me-not. Amherst, etc.

**arvensis** (L.) Hill. Hitchcock Catal.

**virginica** (L.) BSP. Amherst, Mt. Holyoke, etc., H. G. Jesup.

**Lithospermum** [Tourn.] L. Gromwell. Puccoon.

ARVENSE L. Corn Gromwell. Longmeadow ; Springfield, L. Andrews.

**Onosmodium** Michx. False Gromwell.

**virginianum** (L.) DC. Monson, E. Hitchcock ; Long Hill, Springfield, Mrs. Burnham.

**Echium** [Tourn.] L. Viper's Bugloss.

VULGARE L. Blue-weed. Blue Devil. Roadsides near Greenfield, F. G. Tuckerman ; Springfield, Dr. George Demock ; Conway, H. G. Jesup.

## VERBENACEAE

**Verbena** [Tourn.] L. Vervain.

**urticaefolia** L. White Vervain.

**angustifolia** Michx. South Hadley, E. Hitchcock ; Amherst, W. S. Clark ; Mt. Tom, S. Stebbins ; Mt. Holyoke, H. G. Jesup.

**hastata** L. Blue Vervain.

## LABIATAE

**Teucrium** [Tourn.] L. Germander.

**canadense** L. American Germander. Wood Sage.

**Trichostema** L. Blue Curls.

**dichotomum** L. Bastard Pennyroyal.

**Scutellaria** L. Skullcap.

*lateriflora* L. Mad-dog Skullcap. A form with white flowers has been found at Sunderland by R. E. Torrey.

*galericulata* L.

**Marrubium** [Tourn.] L. Horehound.

*Vulgare* L. Common Horehound.

**Agastache** Clayt. Giant Hyssop.

*nepetoides* (L.) Ktze. Deerfield, E. Hitchcock. Not since collected.

**Nepeta** L. Cat Mint.

*CATARIA* L. Catnip.

**HEDERACEA** (L.) Trevisan. Ground Ivy. Gill-over-the-Ground.

**Prunella** L. Self-heal.

*vulgaris* L. Heal-all. Carpenter-weed.

**Galeopsis** L. Hemp. Nettle.

TETRAHIT L. Common Hemp. Nettle.

**Lamium** L. Dead Nettle.

AMPLEXICAULE L. Henbit.

PURPUREUM L.

**Leonurus** L. Motherwort.

CARDIACA L. Common Motherwort.

**Stachys** [Tourn.] L. Hedge Nettle.

TENUIFOLIA Willd. var. ASPERA (Michx.) Fernald.

**Monarda** L. Horse Mint.

DIDYMA L. Oswego Tea. Bee Balm. Roadsides, Leverett, etc.

FISTULOSA L. Wild Bergamot. Shelburne, F. G. Tuckerman; Mt. Toby, A. V. Osmun. Prof. Osmun observed a large colony of the species on Mt. Toby quite remote from any habitation, which had all the appearance of being indigenous. Prof. Tuckerman apparently considered it indigenous, although M. L. Fernald (*Rhodora*, Vol. III, p. 15) describes it as an escape in New England.

**Blephilia** Raf.

*ciliata* (L.) Raf. Hadley, H. G. Jesup.

*hirsuta* (Pursh) Benth. Wood Mint. Cummington, etc., E. Hitchcock.

**Hedeoma** Pers. Mock Pennyroyal.

*pulegioides* (L.) Pers. American Pennyroyal.

**Melissa** [Tourn.] L. Balm.

*officinalis* L. Common Balm. Escaped from gardens, Conway, H. G. Jesup.

**Satureja** [Tourn.] L. Savory. Calamint.

*vulgaris* (L.) Fritsch. Basil. Apparently native.

**Origanum** [Tourn.] L. Wild Marjoram.

VULGARE L. Roadsides, Amherst, etc.

**Pycnanthemum** Michx. Mountain Mint. Basil.

flexuosum (Walt.) BSP.

virginianum (L.) Durand & Jackson.

incanum (L.) Michx. Mt. Holyoke, etc., H. G. Jesup.

muticum (Michx) Pers.

**Thymus** [Tourn.] L.

SERPILLUM L. Creeping Thyme. Amherst, etc., W. D. Barlow; Springfield, Dr. W. H. Chapin. Spreading.

**Lycopus** [Tourn.] L. Water Horehound.

virginicus L. Bugle Weed.

uniflorus Michx. Bugle Weed. Springfield, L. Andrews.

americanus Muhl.

**Mentha** [Tourn.] L. Mint.

SPICATA L. Spearmint.

piperita L. Peppermint.

arvensis L. var. canadensis (L.) Briquet.

arvensis L. var. glabrata (Benth.) Fernald. Sunderland, R. E. Torrey.

**Collinsonia** L. Horse Balm.

canadensis L. Rich-weed. Stone-root.

### SOLANACEAE

**Solanum** [Tourn.] L. Nightshade.

DULCAMARA L. Bitter-sweet.

nigrum L. Common Nightshade.

carolinense L. Horse Nettle. Training School grounds, Springfield.

**Physalis** L. Ground Cherry.

PRUINOSA L. Strawberry Tomato. Persistent and escaping.

heterophylla Nees. Springfield, L. Andrews; Amherst.

virginiana Mill. Springfield, Amherst, etc.

**Nicandra** Adans. Apple of Peru.

PHYSALODES (L.) Pers.

**Lycium** L. Matrimony Vine.

halimifolium Mill. Sometimes escaped.

**Hyoscyamus** [Tourn.] L. Henbane.

NIGER L. Black Henbane.

**Datura** L. Jamestown Weed or Jimson Weed. Thorn Apple.

STRAMONIUM L. Stramonium.

TATULA L. Purple Thorn Apple.

## SCROPHULARIACEAE

**Verbascum** [Tourn.] L. Mullein.

THAPSUS L. Common Mullein.

BLATTARIA L. Moth Mullein. Roadsides, etc.

**Linaria** [Tourn.] Hill. Toadflax.

VULGARIS Hill. Ramsted. Butter and Eggs.

*canadensis* (L.) Dumont.

**Scrophularia** [Tourn.] L. Figwort.

*mariolandica* L.

*leptophylla* Bicknell. Amherst, S. F. Hamblin; Springfield, L. Andrews.

**Pentstemon** (Mitchell) Ait.

*hirsutus* (L.) Willd. Springfield, Miss G. L. Pettis; East Amherst, H. L. Clark in *Rhodora*, Vol. I, p. 164; Hadley, Cobb's List.

LAEVIGATUS Ait. Springfield, Miss G. L. Pettis.

*grandiflorus* Nutt. Springfield, in waste land on the edge of the city, Dr. W. H. Chapin; *Rhodora*, Vol. VII, p. 36. Springfield, Miss E. J. Steele and Joel Hendrick.

**Chelone** [Tourn.] L. Turtlehead. Snakehead.

*glabra* L. Balmony.

**Mimulus** L. Monkey Flower.

*ringens* L.

*alatus* Ait. Amherst, E. Hitchcock. Not observed in recent years.

**Ilysanthes** Raf. False Pimpernel.

*dubia* (L.) Barnhart.

**Gratiola** L. Hedge Hyssop.

*virginiana* L.

*aurea* Muhl.

**Veronica** [Tourn.] L. Speedwell.

*virginica* L. Culver's-root. Culver's Physic.

**Anagallis-aquatica** L. Water Speedwell.

*americana* Schwein. American Brooklime.

*scutellata* L. Marsh Speedwell.

*officinalis* L. Common Speedwell.

*serpyllifolia* L. Thyme-leaved Speedwell.

*peregrina* L. Neckweed. Purslane Speedwell.

*ARvensis* L. Corn Speedwell.

**Gerardia** (Plumier) L. Gerardia.

*pedicularia* L.

*flava* L. Downy False Foxglove.

*virginica* (L.) BSP. Smooth False Foxglove.

- G.** *pauperula* (Gray) Britton. Purple Gerardia. Generally distributed, but not common.  
*tenuifolia* Vahl. Slender Gerardia.  
**Castilleja** Mutis. Painted Cup.  
*coccinea* (L.) Spreng. Scarlet Painted Cup. Generally distributed, but not common.  
**Melampyrum** [Tourn.] L. Cow Wheat.  
*lineare* Lam.  
**Pedicularis** [Tourn.] L. Lousewort.  
*canadensis* L. Common Lousewort. Wood Betony.  
*lanceolata* Michx. Prescott, E. F. Bishop, H. G. Jesup; West Springfield, E. Hitchcock. See *Rhodora*, Vol. VII, p. 36.  
**Schwalbea** [Gronov.] L. Chaff-seed.  
*americana* L. Montague, H. G. Jesup. Possibly introduced.

#### LENTIBULARIACEAE

- Utricularia** L. Bladderwort.  
*inflata* Walt. Belchertown ponds, etc.  
*vulgaris* L. Greater Bladderwort.  
*minor* L. Smaller Bladderwort. Leverett pond, etc.  
*gibba* L. Leverett pond, E. F. Bishop; Springfield, Mrs. M. L. Owen; and elsewhere.  
*intermedia* Hayne. Springfield, S. Stebbins; Leverett, Belchertown, etc.  
*purpurea* Walt. Belchertown, E. F. Bishop; Springfield, Mrs. M. L. Owen; and elsewhere.  
*resupinata* B. D. Greene. Belchertown, E. F. Bishop.  
*cornuta* Michx.

#### OROBANCHACEAE

- Epifagus** Nutt. Beech-drops. Cancer-root.  
*virginiana* (L.) Bart.  
**Conopholis** Wallr. Squaw-root. Cancer-root.  
*americana* (L. f.) Wallr. Mt. Holyoke, E. Hitchcock; Mt. Tom, S. Stebbins; Mt. Toby, H. L. Clark in *Rhodora*, Vol. I, p. 165.  
**Orobanche** [Tourn.] L. Broom-rape.  
*uniflora* L. One-flowered Cancer-root.

#### PHRYMACEAE

- Phryma** L. Lopseed.  
*Leptostachya* L.

## PLANTAGINACEAE

**Plantago** [Tourn.] L. Plantain. Ribwort.

**major** L. Common Plantain. The old Indian name was "White Man's Foot," applied because of its appearance in clearings made by the early settlers. It was formerly considered as an introduced plant, but is now recognized as native to America; it is also cosmopolitan.

**Rugelii** Dcne. Very common.

**LANCEOLATA** L. Rib Grass. Ripple Grass. English Plantain. South Amherst, 1829, E. Hitchcock. Then apparently rare; now very common.

**MEDIA** L. Hoary Plaintain. Becoming common.

**Purshii** R. & S. Springfield, 1879; Amherst, H. L. Clark in *Rhodora*, Vol. I, p. 165. Adventive from the West.

**ARISTATA** Michx. Near Pratt Field, Amherst, S. C. Brooks; Springfield, L. Andrews.

## RUBIACEAE

**Asperula** L.

*galoides* Bieb. Northampton, Miss G. L. Pettis.

*odorata* L. Sweet Woodruff. Northampton, Miss G. L. Pettis. See Bailey's *Enc. of Am. Hort.*, p. 108.

**Galium** L. Bedstraw. Cleavers.

*Aparine* L. Cleavers. Goose Grass. Hitchcock Catal.

*VERUM* L. Yellow Bedstraw. Springfield, Amherst, etc.

*pilosum* Ait.

*circaeans* Michx. Wild Liquorice.

*lanceolatum* Torr. Wild Liquorice.

*boreale* L. Northern Bedstraw.

*MOLLUGO* L.

*trifidum* L.

*Claytoni* Michx. Springfield, L. Andrews.

*tinctorium* L.

*asprellum* Michx. Rough Bedstraw.

*triflorum* Michx. Sweet-scented Bedstraw.

**Mitchella** L. Partridge Berry.

*repens* L.

**Cephalanthus** L. Buttonbush.

*occidentalis* L.

**Houstonia** L.

*caerulea* L. Bluets. Innocence.

*longifolia* Gaertn. Springfield.

## CAPRIFOLIACEAE

**Diervilla** [Tourn.] Mill. Bush Honeysuckle.

**Lonicera** Mill.

**Lonicera** L. Honeysuckle.

**caerulea** L. var. **villosa** (Michx.) T. & G. Mountain Fly Honey-suckle. Springfield, Dr. W. H. Chapin. Mt. Hol-yoke, Dr. H. E. Hooker.

**tatarica** L. Tartarian Honeysuckle. Amherst; escaped from cultivation.

**canadensis** Marsh. American Fly Honeysuckle.

**semperflorens** L. Trumpet Honeysuckle. Sparingly spontaneous.

**dioica** L.

**Symporicarpos** [Dill.] Ludwig. Snowberry.

**racemosus** Michx. Snowberry. Amherst, escaped from cultivation.

**Linnaea** [Gronov.] L. Twin-flower.

**borealis** L. var. **americana** (Forbes) Rehder.

**Triosteum** L. Feverwort. Horse Gentian.

**perfoliatum** L. Tinker's Weed. Wild Coffee.

**aurantiacum** Bicknell. North Wilbraham; Herb. Spfld Sci. Museum.

**Viburnum** [Tourn.] L. Arrow-wood. Laurestinus.

**alnifolium** Marsh. Hobble-bush. Witch Hobble. Moosewood. Confined to rich humus soils.

**Opulus** L. var. **americanum** (Mill.) Ait. Cranberry-tree. High-bush Cranberry. Pimbina.

**acerifolium** L. Dockmackie. Arrow-wood.

**dentatum** L. Arrow-wood.

**cassinoides** L. Withe Rod. Wild Raisin.

**Lentago** L. Sweet Viburnum. Sheepberry. Nannyberry. Wild Raisin.

**Sambucus** [Tourn.] L. Elder.

**canadensis** L. Common Elder.

**racemosa** L. Red-berried Elder.

## VALERIANACEAE

**Valeriana** [Tourn.] L. Valerian.

**officinalis** L. Garden Heliotrope. Slightly escaped from gardens.

**Valerianella** [Tourn.] Hill. Corn Salad. Lamb's Lettuce.

**radiata** (L.) Dufr. Herb. Spfld Sci. Museum; Springfield rail-roads, Miss Eaton, 1892. Doubtfully native in this vicinity.

**radiata** (L.) Dufr. var. **leiocarpa** (T. & G.) Krok. Springfield, C. B. Graves in *Rhodora*, Vol. IV, p. 195.

## DIPSACACEAE

*Dipsacus* [Tourn.] L. Teasel.  
*sylvestris* Huds. Wild Teasel. Cobb's List.

## CUCURBITACEAE

*Sicyos* L. One-seeded Bur Cucumber.

*angulatus* L.

*Echinocystis* T. & G. Wild Balsam-apple.  
*lobata* (Michx.) T. & G.

## CAMPANULACEAE

*Specularia* (Heist.) Fabricius. Venus's Looking-glass.  
*perfoliata* (L.) A. DC.

*Campanula* [Tourn.] L. Bellflower.  
*rotundifolia* L. Harebell. Bluebell.  
*aparinoides* Pursh. Marsh Bluebell.

## LOBELIACEAE

*Lobelia* [Plumier] L.  
*cardinalis* L. Cardinal-flower.  
*SIPHILITICA* L. Great Lobelia. Occasional.  
*spicata* Lam.  
*Kalmii* L. South Hadley, E. Hitchcock; Greenfield, F. G. Tuckerman; Turner's Falls, C. S. Plumb; Amherst, W. D. Barlow.  
*inflata* L. Indian Tobacco.  
*Dortmanna* L. Water Lobelia.

## COMPOSITAE

*Vernonia* Schreb. Ironweed.  
*noveboracensis* Willd. West Springfield, E. Hitchcock.  
*Eupatorium* [Tourn.] L. Thoroughwort.  
*purpureum* L. Joe-Pye Weed. Trumpet Weed.  
*purpureum* L. var. *maculatum* (L.) Darl. Springfield, etc., L. Andrews.  
*verbenaefolium* Michx.  
*sessilifolium* L. Upland Boneset. Notch, Mt. Holyoke, H. G. Jesup.  
*perfoliatum* L. Thoroughwort. Boneset.  
*urticaefolium* Reichard. White Snakeroot.  
*Mikania* Willd. Climbing Hemp-weed.  
*scandens* (L.) Willd.  
*Liatris* Schreb.  
*scariosa* Willd.

*Solidago* L. Golden-rod.

*squarrosa* Muhl. Mt. Holyoke, Mt. Toby; Agawam, L. A. Marsh; Shutesbury, Sunderland, C. S. Plumb.

*caesia* L.

*caesia* L. var. *axillaris* (Pursh.) Gray. Cobb's List.

*latifolia* L.

*bicolor* L.

*puberula* Nutt. Pelham, H. G. Jesup; South Hadley, Mrs. C. S. Phelps; Amherst.

*uliginosa* Nutt.

*speciosa* Nutt.

*patula* Muhl.

*arguta* Ait. Mt. Holyoke; Leverett, H. G. Jesup.

*juncea* Ait.

*neglecta* T. & G.

*odora* Ait. Sweet Golden-rod.

*ulmifolia* Muhl.

*rugosa* Mill.

*nemoralis* Ait.

*canadensis* L.

*altissima* L.

*serotina* Ait.

*serotina* Ait. and var. *gigantea* (Ait.) Gray.

*rigida* L. South Hadley, E. Hitchcock; also see Hoffmann in *Rhodora*, Vol. VI, p. 206.

*graminifolia* (L.) Salisb.

*tenuifolia* Pursh. Springfield, L. Andrews.

**Aster** [Tourn.] L. Starwort. Aster. Frost-flower.

*divaricatus* L.

*Schreberi* Nees. Springfield, L. Andrews.

*macrophyllus* L.

*novae-angliae* L.

*patens* Ait.

*undulatus* L.

*cordifolius* L.

*laevis* L.

*ericoides* L.

*amethystinus* Nutt. Hadley, E. Tuckerman, H. G. Jesup. Levertt, C. S. Plumb.

*multiflorus* Ait.

*dumosus* L.

*lateriflorus* (L.) Britton.

**Tradescanti** L.

*paniculatus* Lam.

**A.** *salicifolius* Ait.

*longifolius* Lam.

*novi-belgii* L. Springfield, L. Andrews.

*puniceus* L.

*puniceus* L. var. *demissus* Lind. Northampton, R. Cameron; M. L. Fernald in *Rhodora*, Vol. I, p. 190.

*puniceus* L. var. *compactus* Fernald. Northampton, R. Cameron; M. L. Fernald in *Rhodora*, Vol. I, p. 189.

*puniceus* L. var. *fimus* (Nees) T. & G. Springfield, L. Andrews.

*umbellatus* Mill.

*linariifolius* L.

*ptarmicoides* T. & G. South Hadley Falls; Herb. Mt. Holyoke College.

*acuminatus* Michx.

*tenuifolius* L.

*Erigeron* L. Fleabane.

*pulchellus* Michx. Robin's Plantain.

*philadelphicus* L.

*annuus* (L.) Pers. Daisy Fleabane. Sweet Scabious.

*ramosus* (Walt.) BSP. Daisy Fleabane.

*ramosus* (Walt.) BSP. var. *discoideus* (Robbins) BSP.

*canadensis* L. Horse-weed. Butter-weed.

*Sericocarpus* Nees. White-topped Aster.

*asteroides* (L.) BSP.

*linifolius* (L.) BSP.

*Antennaria* Gaertn. Everlasting. Ladies' Tobacco.

*Parlinii* Fernald. Mt. Holyoke (Notch); Mt. Toby, A. V. Osmun.

*canadensis* Greene. Springfield, L. Andrews.

*plantaginifolia* (L.) Richards. Plantain-leaved Everlasting.

*fallax* Greene. Springfield, L. Andrews.

*neodioica* Greene. Springfield, L. Andrews.

*neglecta* Greene. Springfield, L. Andrews.

*Anaphalis* DC. Everlasting.

*margaritacea* (L.) Benth. & Hook. Pearly Everlasting.

*Gnaphalium* L. Cudweed.

*polycephalum* Michx. Common Everlasting.

*decurrens* Ives. Everlasting.

*uliginosum* L. Low Cudweed.

*Inula* L. Elecampane.

HELENIUM L. Elecampane.

*Ambrosia* [Tourn.] L. Ragweed.

*trifida* L. Great Ragweed.

- A.** *trifida* L. var. *integrifolia* (Muhl.) T. & G. Springfield, L. Andrews.  
*artemisiifolia* L. Roman Wormwood. Hog-weed. Bitter-weed.  
**Xanthium** [Tourn.] L. Cocklebur. Clotbur.  
*SPINOSUM* L. Plainfield, Porter.  
*STRUMARIUM* L. See Britton & Brown's *Ill. Flora of N. A.*, Vol. III, p. 298.  
*ECHINATUM* Murr. Springfield, L. Andrews.  
**Heliopsis** Pers. Ox-eye.  
*scabra* Dunal. Springfield, L. Andrews.  
**Rudbeckia** L. Cone-flower.  
*triloba* L. Springfield, L. Andrews.  
*HIRTA* L. Yellow Daisy. Black-eyed Susan. Nigger-head.  
*laciniata* L.  
**Helianthus** L. Sunflower.  
*annuus* L. Common Sunflower. Frequently spontaneous.  
*scaberrimus* Ell. Springfield, L. Andrews.  
*giganteus* L.  
*divaricatus* L.  
*strumosus* L.  
*decapetalus* L.  
*TUBEROSUS* L. Jerusalem Artichoke. Northampton meadows ;  
 Northfield meadows.  
**Coreopsis** L. Tickseed.  
*TINCTORIA* Nutt. Roadsides.  
**Bidens** L. Bur Marigold.  
*frondosa* L. Common Beggar-ticks. Stick-tight.  
*connata* Muhl.  
*cernua* L. Stick-tight.  
*laevis* (L.) BSP.  
*Beckii* Torr. Water Marigold. Agawam river, Mrs. M. L. Owen.  
**Galinsoga** R. & P.  
*parviflora* Cav. Springfield, Dr. W. H. Chapin, 1888. Since  
 found elsewhere occasionally.  
**Helenium** L. Sneezeweed.  
*nudiflorum* Nutt. S. C. Brooks, 1910.  
*autumnale* L. Springfield, L. Andrews.  
**Achillea** (Vail.) L. Yarrow.  
*Millefolium* L. Common Yarrow. Milfoil.  
**Anthemis** (Mich.) L. Chamomile.  
*COTULA* L. May-weed. Dog Fennel.  
*ARVENSIS* L. Corn Chamomile. Amherst, in grain fields.  
**Chrysanthemum** [Tourn.] L. Ox-eye Daisy.  
*LEUCANTHEMUM* L. Ox-eye or White Daisy. Marguerite.  
 White-weed. One of our worst weeds in mowings.

**C.** *segetum* L. Corn Chrysanthemum. Corn Marigold. Pansy Park, Belchertown, L. W. Goodell. Escaped from cultivation.

*Parthenium* (L.) Bernh. Feverfew. Springfield, L. Andrews.

*Balsamita* L. var. *tanacetoides* Boiss. Costmary. Mint Geranium. Roadsides, rare, E. Tuckerman.

**Tanacetum** L. Tansy.

*Vulgare* L. Common Tansy.

*Vulgare* L. var. *crispum* DC. Occasional.

**Artemesia** L. Wormwood.

*caudata* Michx. Springfield, L. Andrews.

*canadensis* Michx. Mt. Sugarloaf, Sunderland.

*Vulgaris* L. Common Mugwort.

*Biennis* Willd. Springfield, L. Andrews.

**Tussilago** [Tourn.] L. Coltsfoot.

*Farfara* L. Amherst, Pelham, Granville, Springfield, Dr. W. H. Chapin. One of our earliest introduced plants, but still rare.

**Petasites** [Tourn.] Hill. Sweet Coltsfoot.

*palmatus* (Ait.) Gray. Sunderland, E. Hitchcock; Amherst (1911), R. E. Torrey. Probably Dr. Hitchcock's original station was Plumtrees, Sunderland, where it has existed for many years and is still found. For a number of years it did not appear here, but it has recently come in again.

**Erechtites** Raf. Fireweed.

*hieracifolia* (L.) Raf.

**Senecio** [Tourn.] L. Groundsel. Ragwort. Squaw-weed.

*Vulgaris* L. Common Groundsel.

*obovatus* Muhl.

*aureus* L. Golden Ragwort.

*Balsamita* Muhl.

**Arctium** L. Burdock.

*Lappa* L. Great Burdock.

*Minus* Bernh. Common Burdock. Springfield, L. Andrews.

*Nemerosum* Lejeune & Courtois. Springfield, L. Andrews. See M. L. Fernald and K. M. Wiegand in *Rhodora*, Vol. XII, p. 45.

**Cirsium** [Tourn.] Hill.

*lanceolatum* (L.) Hill. Common or Bull Thistle.

*discolor* (Muhl.) Spreng.

*altissimum* (L.) Spreng.

*muticum* Michx. Swamp Thistle.

*pumilum* (Nutt.) Spreng. Pasture or Bull Thistle.

*Arvense* (L.) Scop. Canada Thistle.

**Onopordum** (Vaill.) L. Cotton or Scotch Thistle.

ACANTHIUM L. Amherst, H. L. Clark in *Rhodora*, Vol. I, p. 164.  
**Centaurea** L. Star Thistle.

*Cyanus* L. Bachelor's Button.

NIGRA L. Knapweed. Spanish Buttons. Waste places, Hardwick, E. Hitchcock; Amherst, etc.

**Cichorium** [Tourn.] L. Succory or Chicory.

INTYBUS L. Common Chicory. Blue Sailors. Formerly rare (1875), now quite common.

**Krigia** Schreb. Dwarf Dandelion.

*virginica* (L.) Willd.

*amplexicaulis* Nutt. Cynthia.

**Leontodon** L. Hawkbit.

AUTUMNALIS L. Fall Dandelion. "Arnica." One station noted in 1875; now rather common in some localities.

**Picris** L.

*hieracoides* L. Springfield, waste places, Mrs. M. L. Owen.

*echioides* L. Ox-tongue. Forest Park, Springfield, several plants noted in 1894, Mrs. M. L. Owen.

**Tragopogon** [Tourn.] L. Goat's Beard.

*porrifolius* L. Salsify. Oyster-plant. Huntington, escaped from cultivation.

*pratensis* L. Huntington, Northampton, escaped from cultivation.

**Taraxacum** [Haller] Ludwig. Dandelion.

OFFICINALE Weber. Troublesome on lawns. For many years what is known as the French dandelion has been cultivated on the Mass. Agr. College grounds, and has escaped very freely into nearby fields. It presents very different characteristics from the type even when escaped, and is susceptible to a mildew (*Podosphaera*), differing in this respect from the type.

*officinale* Weber. var. *palustre* (Sm.) Blytt. Springfield, L. Andrews.

ERYTHROSPERMUM Andr. Red-seeded Dandelion. Mass. Agr. College grounds.

**Sonchus** [Tourn.] L. Sow Thistle.

ARVENSIS L. Field Sow Thistle.

OLERACEUS L. Common Sow Thistle.

ASPER (L.) Hill. Spring-leaved Sow Thistle.

**Lactuca** [Tourn.] L. Lettuce.

SCIROLA L. Prickly Lettuce. Springfield, L. Andrews.

SCIROLA L. var. INTEGRATA Gren. & Godr. Springfield, L. Andrews.

**L.** *canadensis* L. Wild Lettuce. Horse-weed. Springfield, L. Andrews.

*integrifolia* Bigel.

*hirsuta* Muhl. Amherst, H. G. Jesup.

*spicata* (Lam.) Hitchc.

**Crepis** L. Hawk's Beard.

*capillaris* (L.) Wallr. Springfield, L. Andrews.

**Prenanthes** (Vaill.) L. Rattlesnake-root.

*alba* L. White Lettuce. Rattlesnake-root.

*trifoliata* (Cass.) Fernald. Gall-of-the-earth.

*altissima* L.

**Hieracium** [Tourn.] L. Hawkweed.

**AURANTIACUM** L. Orange Hawkweed. Devil's Paint-brush.

Formerly cultivated in gardens, and for the past 15 years a noxious weed in hay fields and on higher elevations, especially in Worcester and Berkshire counties.

*venosum* L. Rattlesnake-weed. Poor Robin's Plantain.

*paniculatum* L.

*marianum* Willd. Dry Hill, Montague, R. E. Torrey.

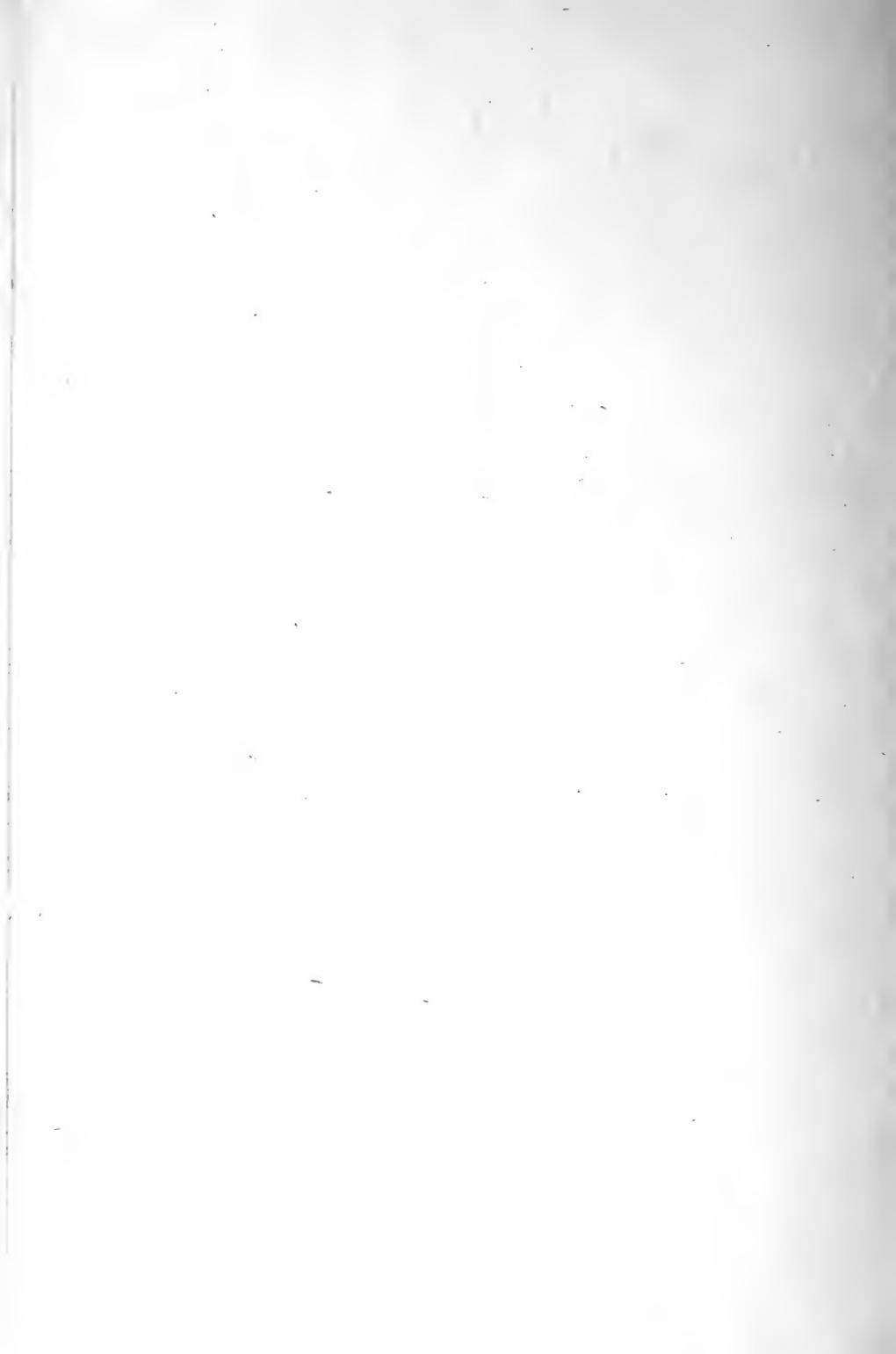
*scabrum* Michx.

**Gronovii** L.

**MURORUM** L. Golden Lungwort. Established in open woods.

Northampton, Mrs. E. H. Terry; *Rhodora*, Vol. VII, p. 80.

*canadense* Michx.



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Mermaid-weed	45	Nyssa	47	Pentstemon	55	Prunella	53
Mexican Tea	26			Peppergrass	31	Psedera	42
Microstylis	21			Peppermint	54	Psilocarya	12
Mikania	59			Petasites	63	Ptelea	39
Mild Water				Phalaris	8	Pteris	1
Pepper	25	Oak	23	Phragmites		Pterospora	48
Milk Purslane	40	Oakesia	17	Phryma	56	Purple Amaranth	26
Milkweed	51	Oat	10	Physalis	54	Azalea	48
Milkwort	40	Grass	10	Phytolacca	26	Flower'g Rasp.	36
Mimulus	55	Oenothera	45	Picea	5	Fringed Orchis	20
Mint	54	Old-witch Grass	7	Pickerel Weed	17	Gerardia	56
Mitchella	57	One-flowered		Picris	64	Milkweed	51
Mitella	33	Cancer-root	56	Pigeon Grape	42	Thorn Apple	54
Miterwort	33	Pyrola	47	Grass	8	Willow	22
Mocker Nut	22	One-seeded Bur		Pig Nut	22	Purslane	28
Mock Pennyroy'	53	Cucumber	39	Pigweed	26	Putty Root	21
Mollugo	27	Onion	17	Pilea	24	Pycnanthemum	54
Monarda	53	Onoclea	2	Pin Oak	23	Pyrola	47
Moneses	47	Opopordum	64	Pine	5	Pyrus	34
Moneywort	49	Onosodium	52	Drops	48		
Monkey Flower	55	Ophioglossum	2	Pinesap	47	Quaking Grass	10
Monotropa	47	Orange Grass	43	Pink	28	Quercus	23
Mooneed	30	Hawkweed	65	Pinus	5	Quillwort	4
Moonwort	2	Oryzopsis	10	Pinweed	43		
Morning Glory	51	Orchard Grass	10	Pilea			
Morus	24	Orchis	19	Platanus			
Mossy Stonecrop	33	Origanum	54	Pinweed			
Motherwort	53	Ornithogalum	18	Plantain			
Moth Mullein	55	Orobanche	56	Plantain-leaved			
Mountain Fly		Orontium	16	Everlasting	61	Rabbit-foot	37
Honeysuckle	58	Oryzopsis	8	Pitch Pine	5	Radicula	32
Holly	41	Osmorrhiza	46	Plantago	57	Radish	32
Laurel	48	Osmunda	2	Plantain	57	Ragged Fringed	
Maple	41	Ostrich Fern	2	Plantain-leaved		Orchis	20
Mint	54	Ostrya	23	Everlasting	61	Robin	28
Rice	8	Oswego Tea	53	Platanus	34	Ragweed	61
Mouse-ear Chick-		Oxalis	39	Poa	10	Ram's Head	
weed	27	Ox-eye	62	Podophyllum	30	Lady's Slip'r	19
Moxie Plum	49	Daisy	62	Podostemum	33	Ramsted	55
Mud Plantain	17	Ox-tongue	64	Pogonia	29	Ranunculus	ii, 29
Mugwort	63	Oxybaphus	27	Poison Hemlock	46	Raphanus	32
Mulberry	24			Ivy	40	Rattle-box	37
Mullein	55			Poke Milkweed	51	Rattlesnake Fern	3
Muscaria	18			Pokeweed	26	Grass	11
Musk Mallow	42			Polygalia	40	Plantain	20
Mustard	32			Polygonatum	18	Kattlesnake-root	65
Myosotis	52			Polygonella	26	Rattlesn'e-weed	65
Myrica	22						

Red Ash	50	Sand Bar Willow	21	Small Solomon's Seal	18	Stickseed	52
Baneberry	30	Cherry	37	Smaller Bladder-wort	56	Stiff Water Crowfoot	29
Campion	28	Spurrey	27	Yellow Lady's Slipper	19	St. John's-wort	43
Cedar	5	Sandbur	8	Small-flowered Crowfoot	29	Stonecrop	33
Clover	37	Sandwort	27	Smartweed	25	Stramonium	54
Currant	37	Sanguinaria	31	Smilacina	18	Strawberry	35
Maple	41	Sanguisorba	36	Smooth Alder	23	Blite	26
Mulberry	24	Sanicle	46	False Foxglove	55	Tomato	54
Oak	23	Sanicula	46	Gooseberry	34	Streptopus	18
Pine	5	Saponaria	28	Sumac	40	Striped Maple	41
Spruce	5	Sarracenia	33	Winterberry	41	Struthiopteris	2
Top	9	Sassafras	31	Snowberry	58	Sugarberry	24
Red-ber'd Elder	58	Satureja	53	Solanum	54	Sugar Maple	41
Red-ozier Dog-wood	47	Savory	53	Solidago	66	Sumac	40
Red-root	42	Saxifraga	33	Solomon's Seal	18	Sundew	33
Red-seeded Dan-delion	64	Saxifrage	33	Sorbaria	34	Sundrops	45
Reed	10	Scarlet Oak	23	Sow Thistle	64	Sunflower	62
Bent Grass	9	Painted Cup	56	Sparganium	6	Swamp But'rcup	29
Canary Grass	8	Scheuchzeria	7	Spartina	10	Dock	25
Meadow Grass	11	Schwalbea	55	Spearmint	54	Loosestrife	44
Rhamnus	42	Scirpus	12	Speckled Alder	23	Milkweed	51
Rhexia	44	Scleranthus	27	Specularia	59	Saxifrage	33
Rhododendron	46	Scleria	13	Speedwell	55	Thistle	63
Rhus	40	Scorpion-grass	52	Sphenopholis	9	White Oak	23
Ribbon Grass	8	Scotch Pine	5	Spergula	27	Sweet Birch	23
Ribes	34	Scouring Rush	3	Spergularia	27	Sweetbrier	37
Rib Grass	57	Scrophularia	55	Spice Bush	31	Cicely	46
Rice Cut-grass	8	Scutellaria	53	Spiderwort	16	Clover	38
Richweed	24	Sedge	13	Spiked Loose-strife	44	Coltsfoot	63
River-b'nk Grape	42	Sedum	33	Spikenard	45	Fern	22
River Bulrush	12	Seedbox	45	Spike Rush	12	Flag	16
Weed	33	Selaginella	3	Spiraea	34	Gale	22
Robinia	38	Self-heal	53	Spiranthes	29	Golden-rod	60
Robin's Plantain	61	Sempervirum	33	Spirodela	16	Pepperbush	47
Rock Brake	1	Senecio	63	Spleenwort	1	Vernal Grass	8
Cress	32	Senna	37	Sporobolus	9	Viburnum	58
Rockrose	43	Sensitive Fern	2	Spotted Cowbane	46	William Catchfly	28
Roman Worm-wood	62	Sericocarpus	61	Touch-me-not	42	Woodruff	57
Rosa	37	Setaria	8	Wintergreen	47	Switch Grass	7
Rose	37	Shad Bush	34	Spreading Dog-bane	50	Sycamore	34
Mallow	42	Shagbark Hick'y	22	Spring Beauty	28	Syphoricarpos	58
Rough Bedstr'w	57	Sheep's Fescue	11	Cress	32	Symphtym	52
Rough-stalked		Sheph'rd's Purse	31	Vetch	38	Symplocarpus	16
Mead'w Gr's	10	Shield Fern	1	Spring-leaved Sow Thistle	64	T	
Round-leaved Cornel	47	Shin Leaf	47	Spirea	5	Taenidia	46
Sundew	33	Shining Willow	21	Spiranthes	5	Tall Buttercup	29
Violet	44	Showy Lady's Slipper	19	Spruce	40	Gypsophyll	28
Rubus	36	Orchis	19	Spurred Gentian	50	Meadow Rue	29
Rudbeckia	62	Shrubby Cinquefoil	35	Squaw-root	56	Oat Grass	10
Rue Anemone	29	Sickle-pod	32	Squirrel Corn	31	Red Top	10
Rumex	25	Sicyos	59	Stachys	53	Tanacetum	63
Rush	17	Silene	28	Staff Tree	41	Tansy	63
Grass	9	Silky Cornel	47	Staphylea	41	Tartarian Honey-suckle	58
Russian Thistle	26	Willow	22	Star Flower	50	Taraxacum	64
Rutabaga	32	Silver Maple	41	Star Grass	18	Taxus	5
Rye Grass	11	Silvery Cinquef'l	35	Skunk Cabbage	16	Teaberry	49
Rynchospora	13	Sisymbrium	ii, 32	Thistle	64	Teasel	59
S		Sisyrinchium	19	Star of Bethle'm	18	Tephrosia	38
Sagina	27	Sium	46	Starry Campion	28	Teucrium	52
Sagittaria	7	Skullcap	53	Steironema	49	Thalictrum	29
Salix	21	Currant	34	Stellaria	27	Thaspium	46
Salsify	64	Sleepy Catchfly	28	Stemless Lady's Slipper	19	Thimbleberry	36
Salsola	26	Slippery Elm	24	Stenophyllus	12	Thin Grass	9
Saltwort	26	Slough Grass	10			Thistle	63
Sambucus	58	Small Cranberry	49			Thorny Amaranth	26
		Bugloss	52				

Thoroughwort	59	Utricularia	56	Water Purslane	45	Wild Senna	3
Three-seeded Mer-		Uvularia	17	Shield	29	Sensitive Plant	37
cury	40			Smartweed	25	Teasel	59
Three-toothed Cin-				Speedwell	55	Yellow Lily	17
quefoil	35			Starwort	40	Willow	21
Thyme-leaved			V	Willow	44	Willow-herb	45
Sandwort	27	Vaccinium	49	Water-weed	7	Winter Cress	32
Speedwell	55	Valerian	58	Waxwork	41	Wintergreen	47
Thymus	54	Valeriana	58	Weeping Willow	21	Witch Grass	11
Tiarella	33	Valerianella	58	White Alder	47	Hazel	34
Tickseed	62	Vallisneria	7	Ash	50	Wood Anemone	29
Tick Trefoil	38	Vanilla Grass	8	Baneberry	30	Mint	53
Tilia	42	Velvet Leaf	42	Bent Grass	9	Nettle	24
Timothy	9	Grass	9	Birch	23	Reed Grass	9
Tinker's Weed	58	Venus's Looking-		Campion	28	Rush	17
Tipularia	21	glass	59	Cedar	4	Sorrel	2
Toothache tree	39	Veratrum	17	Clover	37	Woodssia	39
Toothwort	32	Verbascum	55	Fringed Orchis	20	Woodwardia	1
Tradescantia	16	Verbena	52	Grass	8	Wool Grass	12
Tragopogon	64	Vernonia	59	Lettuce	65	Worm-seed	
Treacle Mustard	32	Veronica	55	Melilot	65	Mustard	32
Tree of Heaven	40	Vervain	52	Mulberry	24	Wormwood	63
Trichostema	52	Vetch	38	Mustard	32		
Tridens	10	Vetchling	39	Oak	23	X	
Tribentalis	50	Viburnum	58	Pine	5		
Trifolium	37	Vicia	38	Poplar	22		
Trillium	18	Viola	43	Snakeroot	59	Xanthium	62
Triosteum	58	Violet	43	Vervain	52	Xyris	16
Triple-awn Grass	8	Wood Sorrel	39	Water Crowfoot			
Trisetum	9	Viper's Bugloss	52	Willow	21	Y	
True Forget-me-		Virginia Creeper	42	White-topped			
not	52	Snakeroot	24	Aster	61	Yarrow	62
Water Cress	32	Virgin's Bower	30	Wild Balsam-apple		Yellow Adder's	
Trumpet Honey-		Vitis	42	Bergamot	59	Tongue	—
suckle	58			Black Cherry	37	Bedstraw	57
Tsuga	5			Black Currant	34	Birch	23
Tufted Loosestrife	49		W	Chess Grass	11	Clover	37
Tulip Tree	30	Wake Robin	18	Columbine	30	Cress	32
Tumble Weed	26	Waldesteinia	35	Cranesbill	39	Daisy	62
Tupelo	47	Walking Leaf	1	Garlic	17	Dock	25
Turk's-cap Lily	17	Wall Rue	1	Ginger	24	Fringed Orchis	20
Turtlehead	55	Walnut	22	Indigo	37	Melilotus	38
Tussilago	63	Water Arum	16	Leek	17	Pond Lily	28
Twayblade	21	Avens	36	Lettuce	65	Water Crowfoot	
Twig Rush	13	Beech	23	Liquorice	57	Yellow-barked Oak	29
Twin-flower	58	Cress	32	Oat Grass	10		23
Twisted Stalk	18	Hemlock	46	Orange-red Lily		Yellow-eyed Grass	16
Typha	6	Horehound	54	Pansy	44	Yew	5
		Waterleaf	51	Peppergrass	31	Z	
U		Water Lily	29	Pink	28		
Ulmus	24	Lobelia	59	Plum	37		
Umbrella Grass	13	Marigold	62	Radish	32		
Tree	30	Milfoil	45	Red Cherry	37	Zanthoxylum	39
Upland Boneset	59	Parsnip	46	Red Raspberry	36	Zizania	8
Urtica	24	Pennywort	46	Sarsaparilla	45	Zizia	46
		Plantain	7, 29				

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